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TEXTILE ORGANON

Volume 58, No. 11 ☐ November 1987

A publication of *Textile Economics Bureau, Inc.*

Highlights

- 1987 Directory of Man-Made Fiber Producers . . . begins on page 250.
- Quarterly U.S. Imports & Exports of Man-Made Fiber, Cotton & Wool Manufactures . . . begins on page 260.
- Third Quarter 1987 Production, Shipments and Ending Stocks . . . begins on page 266.

SHIPMENTS:

Total man-made fiber shipments in the January - October 1987 period were 7,462.0 million pounds, 6.5% greater than in the corresponding 1986 period. Cellulosic fiber shipments at 503.2 million pounds were off 2.0%, while noncellulosic fiber shipments increased 7.2% to 6,958.8 million pounds.

Selected fibers contributing to the January - October 1987 rise in shipments:

- Nylon staple up 12.5% to 848.0 million pounds.
- Polyester staple up 11.0% to 1,960.6 million pounds.
- Olefin yarn up 7.8% to 933.0 million pounds.
- Nylon carpet yarn up 6.5% to 802.3 million pounds.

Total man-made fiber shipments in October 1987 were 765.1 million pounds, down 3.2% from September shipments of 790.4 million pounds.

October shipments of noncellulosic staple fibers were up 1.3% from the prior month, including increases for nylon staple, up 5.1% to 88.4 million pounds and acrylic+modacrylic, up 8.7% to 51.4 million pounds. Noncellulosic yarn shipments in October declined 7.4% to 335.1 million pounds, including nylon carpet yarn, down 14.6% to 76.1 million pounds and olefin yarn, down 10.3% to 96.0 million pounds.

TABLE 1:
TOTAL U.S. MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1987 OCT	1987 SEPT	% CHG 9/87-10/87	1986 OCT	% CHG 10/86-10/87	YEAR TO DATE 1987	YEAR TO DATE 1986	% CHG YTD 1986-1987
CELLULOSIC								
YARN	17.1	16.9	*+1.2*	17.5	*-2.3*	157.1	178.9	*-12.2*
RAYON STAPLE	36.5	39.9	*-8.5*	35.6	*+2.5*	346.1	334.8	*+3.4*
TOTAL CELLULOSIC	**53.6**	**56.8**	***-5.6***	**53.1**	***+0.9***	**503.2**	**513.7**	***-2.0***
NONCELLULOSIC								
YARN								
NYLON[a] - INDUSTRIAL	31.7	29.6	*+7.1*	31.1	*+1.9*	312.7	275.4	*+13.5*
- CARPET	76.1	89.1	*-14.6*	80.2	*-5.1*	802.3	753.0	*+6.5*
- TEXTILE[b]	30.1	33.5	*-10.1*	30.0	*+0.3*	316.5	302.7	*+4.6*
POLYESTER - INDUSTRIAL	30.3	31.1	*-2.6*	27.8	*+9.0*	283.7	260.9	*+8.7*
- TEXTILE[b]	70.9	71.6	*-1.0*	74.1	*-4.3*	700.9	712.9	*-1.7*
OLEFIN	96.0	107.0	*-10.3*	100.2	*-4.2*	933.0	865.6	*+7.8*
TOTAL YARN	**335.1**	**361.9**	***-7.4***	**343.4**	***-2.4***	**3349.1**	**3170.5**	***+5.6***
STAPLE								
NYLON	88.4	84.1	*+5.1*	91.4	*-3.3*	848.0	753.9	*+12.5*
ACRYLIC+MODACRYLIC	51.4	47.3	*+8.7*	53.7	*-4.3*	498.9	523.3	*-4.7*
POLYESTER	205.3	207.7	*-1.2*	188.5	*+8.9*	1960.6	1766.1	*+11.0*
OLEFIN+VINYON[c]	31.3	32.6	*-4.0*	29.8	*+5.0*	302.2	276.5	*+9.3*
TOTAL STAPLE	**376.4**	**371.7**	***+1.3***	**363.4**	***+3.6***	**3609.7**	**3319.8**	***+8.7***
TOTAL NONCELLULOSIC	**711.5**	**733.6**	***-3.0***	**706.8**	***+0.7***	**6958.8**	**6490.3**	***+7.2***
TOTAL MAN-MADE FIBER	**765.1**	**790.4**	***-3.2***	**759.9**	***+0.7***	**7462.0**	**7004.0**	***+6.5***

[a] Nylon excludes Aramid.

[b] Includes low denier industrial nylon and polyester yarn.

[c] 1987 data exclude Vinyon.

Textile Organon

A Monthly Review

NOVEMBER 1987

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Editor
Rosemarie D. Frick

Publishing Headquarters:
Textile Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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U.S. FIBER PRODUCTION, SHIPMENTS AND ENDING STOCK

Third quarter 1987 production of noncellulosic yarn+monofilaments at 1,014 million pounds was unchanged from the second quarter, while shipments registered a slight gain in the third quarter to 1,025 million pounds. The yarn inventory position declined 11.2 million pounds to 279 million pounds, the lowest level since January 1984.

Noncellulosic staple+tow production in the third quarter 1987 declined 4.5% to 1,059 million pounds. Shipments were also lower, down 3.0% to 1,062 million pounds, while staple inventories at 330 million pounds fell slightly below the prior quarter's level. (See Table 9)

U.S. MAN-MADE FIBER IMPORTS & EXPORTS

Total man-made fiber imports were 34.1 million pounds in September, down 2.4% from August. For the first nine months 1987, imports at 296.1 million pounds were 6.0% above the corresponding 1986 period. Imports of polyester staple reached their highest monthly level this year with 8.7 million pounds reported for September. For the first nine months 1987, polyester staple imports totaled 56.3 million pounds, an increase of 110% from the same period last year. (See Table 7)

U.S. man-made fiber exports in September were 63.7 million pounds, up slightly from August, but on a year-to-date basis were 10.6% ahead of the corresponding 1986 period... 564.0 million pounds vs. 509.9 million pounds. (See Table 8)

BASF ACQUIRES COURTAULDS' NYLON HOSIERY BUSINESS IN U.S.

BASF Corporation's Fibers Division and Courtaulds North America have jointly announced BASF'S acquisition of Courtaulds' nylon production of hosiery yarns and yarns for wrap spinning.

The sale of Courtaulds' nylon hosiery and wrap spinning business to BASF in no way affects Courtaulds' continued participation in the rayon, acrylic and nylon tricot business in the U.S., according to Derek F. Twogood, President of Courtaulds North America Inc. (BASF Corporation Fibers Division News Release 10/87)

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1987 DIRECTORY OF U.S. MAN-MADE FIBER PRODUCERS

NOTES & DEFINITIONS

This directory of producers is divided into the following categories:

(1) Cellulosic plus Noncellulosic Fibers
(2) Olefin Fiber
(3) Textile Glass Fiber

The locality shown represents a plant site. Unless shown separately, the Head Sales Office address is the same as the Executive Office address.

The generic fiber names used in this survey are those established by the U.S. Federal Trade Commission (FTC). The *italicized* words are trademarks. All other fiber names are generic and appear in regular type.

● Indicates a company producing olefin fiber as well as other man-made fiber(s). For example, Ametek produces olefin fiber (page 251) as well as nylon, polyester and saran.

* Indicates a new plant, in the planning stage or under construction, or a new facility for producing a new product at an existing plant. Such facilities are not expected to be operable before 1987.

Yarn means filament yarn.
Monofil means an extruded monofilament and may be either a round or a rectangular (ribbon) cross-section. Monofilaments for bristles are excluded.
Film includes **Slit:** tape produced by slitting an already-attenuated wide sheet of olefin film; and **Split:** fibrillated slit film.
Not included in this survey is the slit film used for decorative or tying ribbon and such.
Rope includes braided and twisted rope as well as filler or core fiber.
Cordage is under 3/16" and includes tying and harvest (baler and binder) twine.
Industrial Goods means bags, bale wrap and protective covers, agricultural cloth, tarps and pool covers, etc.
Captive means that most or all of the fiber produced is consumed by the company in a vertical operation.

GENERIC NAMES & TRADEMARKS

The following are generic names, in **bold** type, and a brief description of the fibers covered by each name shown in regular type.

GLASS FIBER

This fiber is made in two primary forms: continuous strand and staple sliver. Continuous strand is drawn fiber (i.e., from a textile-type bushing), while staple sliver, which is produced in relatively small amounts, is a blown fiber. Textile glass fiber thus ***does not*** include the substantial quantities of blown glass wool and pack, e.g., mat for air & liquid filtration, acoustical & thermal insulation, battery mats & separators and underground pipe wrap (except reinforcing).

Yarn & Strand: Continuous filament yarn and strand packaged for sale as such. Includes the yarn and strand used in the manufacture of nonwoven scrim for sale as such.
Roving: Two or more ends of untwisted strand. Includes spun strand roving (a single, continuous strand looped back on itself to give the equivalent of two or more strands) and roving for making woven roving
Mat: Mat in any nonwoven form as made from a continuous filament, i.e., continuous strand mat (filaments bonded with a suitable binder to form a membrane) and chopped strand mat (1/2" to 3" strands deposited in a random manner and resin bonded).
Chopped: Chopped yarn, strand or roving (1/4" to 3-3/4" length).
Milled: Hammer-milled yarn, strand or roving (1/32" to 1/4" length).
Staple Yarn & Sliver: A blown fiber, as noted, and means ribbons of generally parallel glass staple (3" to 15" random lengths) with or without a filament yarn reinforcement, with or without a binder, and slightly condensed to an approximately uniform cross section.

CELLULOSIC (ARTIFICIAL) FIBERS

Acetate: Cellulosic acetate. Cigarette filtration tow is excluded.
Triacetate: Cellulose acetate, wherein not less than 92% of the hydroxyl groups are acetylated.
Rayon: Regenerated cellulose, including substitutions for not more than 15% of the hydrogens of the hydroxyl groups. Includes high wet modulus fiber.
Cupra: Cuprammonium rayon.
The viscose rayon yarns are identified as **Ind** (industrial or high tenacity yarn) and **reg** (regular or textile yarn).

NONCELLULOSIC (SYNTHETIC) FIBERS

Acrylic: At least 85% acrylonitrile by weight.
Modacrylic: 35% to 84% acrylonitrile by weight, except when it qualifies as rubber.
Azlon: Regenerated natural protein.
Nylon: A long-chain synthetic polyamide in which less than 85% of the amide linkages are attached directly to two aromatic rings. The types are identified as 6, 66, etc. Where a company produces both type 6 and type 66, the designation 6/66 is used.
Aramid: A long-chain synthetic polyamide in which at least 85% of the amide linkages are attached directly to two aromatic rings. In this survey, any aramid data are included with nylon.
Olefin: At least 85% ethylene, propylene or other olefin units by weight, except amorphous (noncrystalline) polyolefins qualifying as rubber. **E** means Polyethylene and **P** means Polypropylene. Also see adjoining notes on olefin fiber.
PBI: A long chain having reoccurring imidazole groups.
Polyester: At least 85% by weight of an ester of a substituted aromatic carboxylic acid, including but not restricted to substituted terephthalate units, and parasubstituted hydroxybenzoate units.
Saran: At least 80% vinylidene chloride by weight.
Spandex: At least 85% of segmented polyurethane.
Vinyon: At least 85% vinyl chloride by weight.

Other man-made fibers included in this survey, but not listed by the FTC, are Polycarbonate and **TFE-** & **FEP**-fluorocarbon.

Not covered in this survey are fibers which would fall under the FTC's generic designations of rubber, lastrile, metallic and novoloid. Fibers falling under the FTC designations of anidex and nytril are no longer produced.

Carbon fibers are not included in this survey.

ALBANY INTERNATIONAL-MONOFILAMENT PLANT ●

EXECUTIVE OFFICE: 156 S. Main Street, Homer, NY 13077

Fluoro	Homer, NY *Halar, Kynar, Teflon, Tefzel* (monofil)
Nylon 6, 66 & 612	Homer (monofil)
Polyester	Homer (monofil-regular & hydrolysis-resistant)

ALLIED-SIGNAL INC. ENGINEERED MATERIALS SECTOR, FIBERS DIVISION ●

EXECUTIVE OFFICE: 1411 Broadway, New York, NY 10018
REGIONAL SALES: 400 N. Tustin Avenue, Santa Ana, CA 92705
1775 The Exchange, Suite 160, Atlanta, GA 30339
2100 Fiber Park Drive, Dalton, GA 30720
64 South Miller Road, Akron, OH 44313

Nylon 6	Columbia, SC & Hopewell, VA *A.C.E., Anso, Anso-Tex, Anso V Worry Free, Caplana, Caprolan, Capima, Captiva, Hydrofil, Patina, Sea Gard* (yarn, monofil & staple)
Polyester	Moncure, NC *A.C.E.* (yarn & monofil)

AMERICAN CYANAMID COMPANY, FIBERS DIVISION

EXECUTIVE OFFICE: One Cyanamid Plaza, Wayne, NJ 07470
REGIONAL SALES: 350 Fifth Avenue, Suite 2602, New York, NY 10118
P.O. Box 32787, Charlotte, NC 28232

Acrylic	Milton, FL *Creslan* (staple & tow)

AMERICAN POLYCRAFT, INC. ●

EXECUTIVE OFFICE: P.O. 3603, Dalton, GA 30721

Nylon 6	Dalton, GA (yarn)

AMETEK INC., SPECIAL FILAMENTS DIVISION ●

EXECUTIVE OFFICE: Box 339, Odenton, MD 21113

Nylon 6, 66, 612 & 11	Odenton, MD (monofil)
Polyester	Odenton (monofil)
Saran	Odenton (monofil)

AVTEX FIBERS INC. ●

EXECUTIVE OFFICE: Bldg. 200, Berwyn Park, Cassatt Road, P.O. Box 880, Valley Forge, PA 19482
SALES OFFICE: 1185 Avenue of the Americas, New York, NY 10036
REGIONAL SALES: 1 Fairview Plaza, 5950 Fairview Road, Suite 501, Charlotte, NC 28210

Polyester	Lewistown, PA *Avlin* (yarn)
Rayon	Front Royal, VA *Aviloc, Avril, Avril II, Avril III, Avril Prima, Fibers 40 & 43* (ind yarn & staple)

BASF CORPORATION FIBERS DIVISION

EXECUTIVE OFFICE: P.O. Drawer D, Williamsburg, VA 23187
REGIONAL SALES: 5505 East Carson Street, Suite 205, Lakewood, CA 90713
500 Holiday Avenue, Dalton, GA 30720
111 West 40th Street, New York, NY 10018
Four Seasons Executive Center, 3A Terrace Way, Greensboro, NC 27403

Acrylic	Williamsburg, VA *Zefkrome, Zefran* (staple)
Nylon 6	Enka, NC; Anderson & Central, SC & Lowland, TN *Crepeset, Shimmereen, Vivana, Zefsport, Zeftron, Zeftron 500, Zeftron 500 ZX* (yarn & staple)

BASF CORPORATION FIBERS DIVISION *(CONTINUED):*

Polyester	Lowland, TN *Golden Glow, Golden Touch, Silky Touch, Strialine, Ultra Touch* (yarn)
Rayon	Lowland, TN *Zanaire, Zankare, Zankrome, Zantrel* (staple)

BASF Corporation has carpet yarn spinning plants at Allendale, SC and Sylvania, GA.

BERKLEY & CO. INC. ●

EXECUTIVE OFFICE: Highways 9 & 71, Spirit Lake, IA 51360

Nylon 6	Spirit Lake, IA (monofil)

CALIFORNIA WEBBING INDUSTRIES, INC. ●

EXECUTIVE OFFICE: 4560 Pacific Blvd., Los Angeles, CA 90058

Nylon	Los Angeles, CA (yarn)
Polyester	Los Angeles (yarn)

CAMAC CORPORATION

EXECUTIVE OFFICE: P.O. Box 1004, Bristol, VA 24203

Nylon 6	Bristol, VA *Camalon* (yarn)

CELANESE FIBERS, INC.

EXECUTIVE OFFICE: P.O. Box 32414, Charlotte, NC 28232
MARKETER: Celanese Fibers, 1211 Avenue of the Americas, New York, NY 10036
REGIONAL SALES: 110 E. 9th Street, Room A 1229, Los Angeles, CA 90079
6000 Lake Forest Drive, Suite 300, Atlanta, GA 30328
P.O. Box 32414, Charlotte, NC 28232
2950 W. Market Street, Akron, OH 44313

Acetate	Rock Hill, SC *(Celriver)* & Narrows, VA *(Celco)* (yarn, staple & tow)
Polyester	Fayetteville, Salisbury & Shelby, NC & Darlington & Greenville, SC *Angelette, Ceylon, Comfort Fiber, ESP, Fortrel, Loftguard, Polar-Guard, Serene, Superba* (yarn, staple, tow & fiberfill)
PBI	Rock Hill (staple)
Vinyon	Rock Hill (staple)

COLOR-FI/MARTIN FIBERS INC.

EXECUTIVE OFFICE: P.O. Box 469, Edgefield, SC 29824

Nylon	Sumter & Trenton, SC (staple & tow)
Polyester	Sumter & Trenton (staple)

CONCORDE FIBERS, INC. ●

EXECUTIVE OFFICE: P.O. Box 200, Hwy. 45, Jamestown, SC 29453

Nylon 6	Jamestown, SC (yarn)

CORTLAND LINE COMPANY

EXECUTIVE OFFICE: 3736 Kellog Road, Cortland, NY 13045

Nylon 6	Cortland, NY (monofil-captive)

COURTAULDS NORTH AMERICA INC.

EXECUTIVE OFFICE: 104 West 40th Street, New York, NY 10018
REGIONAL SALES: P.O. Box 2648, Mobile, AL 36652

Rayon	Le Moyne, Mobile County, AL *Coloray & Fibro* (staple)
Nylon 6	Le Moyne (yarn)

E. I. DU PONT DE NEMOURS & COMPANY (INC.) ●

TEXTILE FIBERS DEPARTMENT ●

EXECUTIVE OFFICE: Wilmington, DE 19898
REGIONAL SALES: 5500 Union Pacific Avenue, City of Commerce, CA 90022
1251 Avenue of the Americas, New York, NY 10020
6250 Fairview Road, Charlotte, NC 28234
2770 W. Market Street, Akron, OH 44313
300 Franklin Bldg., Eastgate Center, Chattanooga, TN 37411

Acrylic	Camden, SC & Waynesboro, VA *Orlon* (staple & tow)
Aramid	Richmond, VA *Kevlar* (yarn), *Nomex* (yarn, staple & tow)
Nylon 66	Seaford, DE; Camden, SC; Chattanooga, TN & Martinsville, Richmond & Waynesboro, VA (yarn, monofil, staple & tow)
Polyester	Kinston & Wilmington, NC; Camden & Charleston, SC *Dacron,* (yarn, staple, tow & fiberfill), *Sontara* (spunlaced)
Spandex	Waynesboro *Lycra* (fused multifil or coalesced monofil)

POLYMER PRODUCTS DEPARTMENT

EXECUTIVE OFFICE: See listing above.

Nylon 6, 66, 612 & Polyester	Parkersburg, WV *Dacron, Dymetrol, Tynex & Vylor* (monofil of 50 denier & coarser)

EASTMAN KODAK COMPANY

EASTMAN CHEMICALS DIVISION

EXECUTIVE OFFICE: Kingsport, TN 37662
MARKETER: EASTMAN CHEMICAL PRODUCTS, INC., P.O. Box 431, Kingsport, TN 37662
REGIONAL SALES: 1133 Avenue of the Americas, New York, NY 10036

Acetate	Kingsport, TN *Chromspun, Estron* (yarn)
Polyester	Kingsport, TN & Columbia, SC *Kodel* (staple)

FIRESTONE FIBERS & TEXTILES COMPANY

DIVISION OF FIRESTONE TIRE & RUBBER COMPANY

EXECUTIVE OFFICE: P.O. Box 1278, Gastonia, NC 28052

Polyester	Hopewell, VA (yarn)

FOSS MANUFACTURING COMPANY, INC. ●

EXECUTIVE OFFICE: Ward Hill Industrial Park, Haverhill, MA 01830
PLANT OFFICE: Haverhill, MA 01830

Polyester	Haverhill, MA (staple-captive)

GLOBE MANUFACTURING CO.

EXECUTIVE OFFICE: 456 Bedford Street, Fall River, MA 02720

Spandex	Fall River, MA & Gastonia, NC *Cleerspan, DC-*$_{100,}$ *DC-*$_{700,}$ *Glospan* (fused multifil)

THE GOODYEAR TIRE & RUBBER COMPANY, POLYESTER DIVISION

EXECUTIVE OFFICE: Akron, OH 44316

Polyester	Scottsboro, AL & Point Pleasant, WV (yarn-captive)

GUILFORD MILLS, GAINESVILLE DIVISION

EXECUTIVE OFFICE: 4925 West Market Street, Greensboro, NC 27402
PLANT OFFICE: 455 Osborne Street, S.E., Gainesville, GA 30501

Nylon 6	Gainesville, GA (yarn & monofil-captive)

HANOVER MILLS, INCORPORATED

Subsidiary of Falk Fibers & Fabrics Inc.

EXECUTIVE OFFICE: 2120 Pinecroft Road, Greensboro, NC 27407
REGIONAL SALES: 1450 Broadway, New York, NY 10018
2120 Pinecroft Road, Greensboro, NC 27407

Nylon 6	Yanceyville, NC *Hanover* (yarn & monofil)

HOECHST CELANESE CORPORATION

EXECUTIVE OFFICE: 202-206 North, Somerville, NJ 08876
1515 Broadway, New York, NY 10036
REGIONAL SALES: 5601-77 Center Drive, Suite 250, Charlotte, NC 28210
3711 Long Beach Blvd., Suite 801, Long Beach, CA 90807

Polyester	Spartanburg, SC *Trevira* (yarn, monofil, staple & spunbonded)

JOHNSON FILAMENTS, INC. ●

Subsidiary of JWI Ltd.

EXECUTIVE OFFICE: Industrial Avenue, Williston, VT 05495

Nylon 6/66	Williston, VT (monofil)
Polyester	Williston (monofil)

KAYSER-ROTH HOSIERY INC., YARN MANUFACTURING DIVISION

EXECUTIVE OFFICE: 2303 W. Meadowview Road, Greensboro, NC 27407

Nylon 66	Creedmoor, NC (yarn-captive)

MKS COMPANY INC.

EXECUTIVE OFFICE: 1401 West Elk Avenue, Elizabethton, TN 37643

Polyester	Elizabethton, TN (staple)

MONOFILAMENTS, INC.

EXECUTIVE OFFICE: 1401 Hopeman Pkwy., Waynesboro, VA 22980

Nylon 6/66	Waynesboro, VA (monofil)
Polycarbonate	Waynesboro (monofil)
Polyester	Waynesboro (monofil)

*The company also produces fusible nylon (monofil) at its Waynesboro facility.

MONSANTO COMPANY

EXECUTIVE OFFICE: 800 N. Lindbergh Blvd., St. Louis, MO 63167

MONSANTO CHEMICAL COMPANY, FIBERS & ENGINEERED PRODUCTS DIVISION

REGIONAL SALES: 24012 Calle de la Plata, Suite 250, Laguna Hills, CA 92653
320 Interstate North Pkwy., Atlanta, GA 30339
Merchandise Mart, 222 North Bank Drive, Chicago, IL 60654
1460 Broadway, 11th Floor, New York, NY 10036
6230 Fairview Road, Charlotte, NC 28210
260 Springside Drive, P.O. Box 5444, Akron, OH 44313

Acrylic	Decatur, AL *Acrilan, Acrilan II, Bi-Loft, Fi-Lana II, Pa-Qel, So-Lara, So-Qel* (staple & tow)
Modacrylic	Decatur *SEF, SEF Plus* (staple & tow)
Nylon 66	Pensacola, FL & Greenwood, SC *No-Shock, Ultron* (yarn & staple)

ASTRO TURF INDUSTRIES INC.

SALES OFFICE: 809 Kenner Street, Dalton, GA 30720

Nylon 66	Dalton, GA *Astro Turf* (recreational surfaces)

NORTH AMERICAN RAYON CORPORATION

EXECUTIVE OFFICE: West Elk Avenue, Elizabethton, TN 37643
REGIONAL SALES: 500 Fifth Avenue, New York, NY 10110
Rayon — Elizabethton, TN (ind & reg yarn & tow)

REEMAY, INC. ●

EXECUTIVE OFFICE: P.O. Box 511, Old Hickory, TN 37138
Polyester — Old Hickory, TN *Reemay* (spunbonded)

SHAKESPEARE COMPANY, MONOFILAMENT DIVISION ●

SALES OFFICE: 6111 Shakespeare Road, P.O. Box 4060, Columbia, SC 29240
Nylon 6/66 & 610 — Columbia, SC (monofil & monofil thread)
Polyester — Columbia (monofil & monofil thread)

STAR FIBERS, INC.

EXECUTIVE OFFICE: 136 Fuller Road, Albany, NY 12205
REGIONAL SALES: Edgefield, SC 29824
Nylon 6/66 — Edgefield, SC *Starbrite* (staple)

SUNSHINE CORDAGE CORPORATION ●

EXECUTIVE OFFICE: 7250-7270 N.W. 41st Street, Miami, FL 33166
Nylon 6 — Miami, FL *Sunylon* (yarn & cordage)

TOLARAM FIBERS, INC. ●

EXECUTIVE OFFICE: P.O. Box 436, Highway 52 North, Ansonville, NC 28007-0436
Nylon 6.6 — Ansonville, NC (yarn)
Polyester — Ansonville & Asheboro, NC (yarn)

UNIVERSAL POLYMER PRODUCTS CORPORATION

Subsidiary of Falk Fibers & Fabrics Inc.
EXECUTIVE OFFICE: See **Hanover Mills**
REGIONAL SALES: 1450 Broadway, New York, NY 10018
2120 Pinecroft Road, Greensboro, NC 27407
Polyester — Fuquay-Varina, NC (yarn & monofil)

WELLMAN, INC., MAN-MADE FIBER DIVISION

EXECUTIVE OFFICE: P.O. Box 188, Johnsonville, SC 29555
67 Walnut Avenue, Suite 308, Clark, NJ 07066
REGIONAL SALES: 1200 East Morehead Street, Charlotte, NC 28204
25 Braintree Hill Park, Suite 302, Braintree, MA 02184
Nylon 6 — Johnsonville, SC *Wellon* (staple)
Nylon 66 — Johnsonville *Wellon, Wellstrand* (staple, tow & tops)
Polyester — Johnsonville *Fillwell, Wellene, Wellstrand* (staple & tow)

YKK ZIPPER CO.

Polyester — Macon, GA (yarn)

OLEFIN FIBER

ACS INDUSTRIES, INC.

EXECUTIVE OFFICE: 71 Villanova Street, Woonsocket, RI 02895
PLANT: Woonsocket, RI (P yarn)

ALADDIN CARPETS, INC.

EXECUTIVE OFFICE: P.O. Box 2208, Dalton, GA 30720
PLANT: Dalton, GA (P yarn)

ALBANY INTERNATIONAL - MONOFILAMENT PLANT

EXECUTIVE OFFICE: See Listing on Page 251.
PLANT: Homer, NY (P monofil)

ALLIED-SIGNAL INC. ENGINEERED MATERIALS SECTOR, FIBERS DIVISION

EXECUTIVE OFFICE: See Listing on Page 251.
PLANT: Chesterfield, VA *Spectra* (E yarn & staple)

AMERICAN MANUFACTURING COMPANY

EXECUTIVE OFFICE: 200 South Park Road, Lafayette, LA 70505
REGIONAL SALES: 107 Trumball Street, Elizabeth, NJ 07206
5854 Hollis Street, Emeryville, CA 94608
1520 Industrial Blvd., Jacksonville, FL 32205
6110 Bienvenue Street, New Orleans, LA 70117
1715 South 11th Street, St. Louis, MO 63104
1350 Kress Street, Houston, TX 77020
5050 First Avenue South, Seattle, WA 98134
LAFAYETTE ROPE DIVISION
PLANT: Lafayette, LA *Amco, American, Bondtie, Floterope* (E & P monofil & film)

AMERICAN POLYCRAFT, INC.

EXECUTIVE OFFICE: See Listing on Page 251.
PLANT: Dalton, GA (P yarn & film)

AMETEK INC., SPECIAL FILAMENTS DIVISION

EXECUTIVE OFFICE: See Listing on Page 251.
PLANT: Odenton, MD (E & P monofil)

AMOCO FABRICS & FIBERS COMPANY

EXECUTIVE OFFICE: 900 Circle 75 Parkway, Suite 550, Atlanta, GA 30339
REGIONAL SALES: 15066 Shoemaker Avenue, Santa Fe Springs, CA 90670
P.O. Box 911, Dalton, GA 30720
P.O. Box 3667, 604 Sheridan Avenue, Dalton, GA 30720
700 West 1st Street, Lowell, NC 28098
PLANT: Andalusia & Roanoke, AL; Bainbridge, Hazlehurst & Nashville, GA; Lowell, NC & Afton, VA (P yarn, monofil, film & staple)

The company produces *PolyBac and Polybac FLW* primary carpet backing; *Action Bac* secondary carpet backing; *Amo Pave, Amo Weve and Propex* industrial goods; and *Marquesa Lana, Palton, Patlon Plus and Synera* yarn at these locations.

ARLIN MFG. CO., INC.

EXECUTIVE OFFICE: 239 Industrial Avenue, Lowell, MA 01853
PLANT: Lowell, MA (P film)

ARMSTRONG WORLD INDUSTRIES, INC.
EXECUTIVE OFFICE: Lancaster, PA 17604
PLANT: Charlotte, NC (P film-captive)
The company weaves carpet backing.

AVTEX FIBERS, INC.
EXECUTIVE OFFICE: See Listing on Page 251.
PLANT: Front Royal, VA (P staple)

BEAULIEAU OF AMERICA
EXECUTIVE OFFICE: P.O. Box 4539, Dalton GA 30721
PLANT: Dalton, GA (P yarn)

BERKLEY & CO. INC.
EXECUTIVE OFFICE: See Listing on Page 251.
PLANT: Spirit Lake, IA (E & P monofil-captive)

BLUE MOUNTAIN EXTRUSIONS
EXECUTIVE OFFICE: P.O. Box 100, Anniston, AL 36202
PLANT: Anniston, AL *Gold Medal, Poly Autotwine, Poly Macramé, Polylasting, TY-EZ Polytape, Tylon, Tytite* (E & P film cordage)

BRIDON CORDAGE INC.
EXECUTIVE OFFICE: 909 16th Street, Albert Lea, MN 56007
PLANT: Albert Lea, MN (P film cordage)

BURLINGTON, INC.
EXECUTIVE OFFICE: P.O. Box 21207, Greensboro, NC 27420
PLANT: Greensboro, NC (P yarn)

CALIFORNIA WEBBING INDUSTRIES, INC.
EXECUTIVE OFFICE: See Listing on Page 251.
PLANT: Los Angeles, CA (P yarn)

CHASE PACKAGING CORPORATION
EXECUTIVE OFFICE: 2 Greenwich Plaza, Greenwich, CT 06830
PLANT: Portland, OR (P film industrial goods)

COLUMBIAN ROPE COMPANY
EXECUTIVE OFFICE: P.O. Box 270, Hwy. 45 North, Guntown, MS 38849
REGIONAL SALES: P.O. Box 270, Hwy. 45 North, Guntown, MS 38849
PLANT: Guntown, MS *Polypro 6* (E & P monofil & film)

CONCORDE FIBERS, INC.
EXECUTIVE OFFICE: See Listing on Page 251.
PLANT: Jamestown, SC (P yarn)

CROWE ROPE COMPANY
EXECUTIVE OFFICE: Warren, ME 04864
PLANT: Warren, ME *Crowelon* (P monofil & film)

CUMBERLAND MILLS, INC.
EXECUTIVE OFFICE: 1010 N. Hamilton Street, Dalton, GA 30720
PLANT: Dalton, GA (P yarn)

CUTLASS CARPET
PLANT: Dalton, GA (P yarn)

DIAMOND MILLS, INC.
EXECUTIVE OFFICE: P.O. Box 46, Eton GA 30724
PLANT: Eton, GA (P yarn & film)

DORSETT CARPET MILLS, INC.
EXECUTIVE OFFICE: P.O. Box 740, Chatsworth, GA 30705
PLANT: Chatsworth, GA (P yarn)

E. I. DU PONT DE NEMOURS & COMPANY (INC.)
TEXTILE FIBERS DEPARTMENT
EXECUTIVE OFFICE: See Listing on Page 252.
PLANT: Old Hickory, TN & Richmond, VA *Tyvek* (E spunbonded)

ELIZABETH WEBBING MILLS CO., INC.
EXECUTIVE OFFICE: 521 Roosevelt Avenue, Central Falls, RI 02862
PLANT: Central Falls, RI (P yarn & film)

ENSIGN-BICKFORD INDUSTRIES, INC. FILM FIBERS DIVISION
EXECUTIVE OFFICE: 660 Hopmeadow Street, Simsbury, CT 06070
PLANT: Simsbury, CT (P film)

EXXON CHEMICAL AMERICAS, INDUSTRIAL TEXTILES DIVISION
DIVISION HEADQUARTERS: 2550 West Fifth North Street, Summerville, SC 29483-9699
MARKETING OFFICE: 380 Interstate North, Suite 375, Atlanta, GA 30339
PLANT: Kingman, KS (P monofil & film cordage)
Summerville, SC (P monofil & film fabrics)
The company also weaves *Baxon* carpet backing and packaging fabrics at Summerville, SC.

FIBERS & FABRICS OF GEORGIA, INC.
Subsidiary of Georgia Synthetics, Inc.
EXECUTIVE OFFICE: P.O. Box 962, Elberton, GA 30635
PLANT: Elberton, GA (P yarns, fibrillated, roll embossed filaments & ribbon yarn)

FIBERS SOUTH, INC.
EXECUTIVE OFFICE: P.O. Box 189, Trussville, AL 35173
PLANT: Trussville, AL *Polystar, Trustite & Tyrite* (P film, monofil, tapes & staple)

FILAMENT FIBER TECHNOLOGY INCORPORATED
EXECUTIVE OFFICE: 999 Airport Road, Lakewood, NJ 08701
PLANT: Lakewood, NJ (P yarn)

FNT INDUSTRIES, INC.
EXECUTIVE OFFICE: 927 First Street, Menominee, MI 49858
PLANT: Menominee, MI (E monofil)

FOSS MANUFACTURING CO., INC.

EXECUTIVE OFFICE: See Listing on Page 252.
(P staple-captive)

GENERAL FIBERS & FABRICS, INC.

EXECUTIVE OFFICE: Orchard Hill Road, LaGrange Industrial Park, LaGrange, GA 30240
PLANT: LaGrange, GA (P film)
The company also weaves *Supertuft* carpet backing as well as bagging and woven polypropylene fabrics here.

GEORGIA SYNTHETICS, INC.

EXECUTIVE OFFICE: P.O. Box 962, Elberton, GA 30635
PLANT: Elberton, GA (P film carpet backing)
Also see listing for **Fibers & Fabrics of Georgia, Inc.**

GFF HOLDING COMPANY

(Formerly NSI, Inc.)

ADMINISTRATIVE OFFICE: Box 658, Soperton, GA 30457
PLANT: Soperton, GA (P film-captive)
The company weaves carpet backing here.

HERCULES INCORPORATED

HERCULES ENGINEERED & FABRICATED PRODUCTS COMPANY, FIBERS

EXECUTIVE OFFICE: Hercules Plaza, Wilmington, DE 19894
MARKETING HEADQUARTERS: 3169 Holcomb Bridge Rd., Suite 301, Norcross, GA 30071
REGIONAL SALES: 280 Railroad Avenue, Greenwich, CT 06830
PLANT: Oxford, GA *Elustra, Herculon, Nouvelle* (P yarn & staple)

THE HOOVEN & ALLISON COMPANY

EXECUTIVE OFFICE: 677 Cincinnati Avenue, Xenia, OH 45385
PLANT: Xenia, OH (P film cordage)

INTEGRATED PRODUCTS, INC.

EXECUTIVE OFFICE: P.O. Box 1791, Rome, GA 30161
PLANT: Rome, GA (P staple)

J & J INDUSTRIES

EXECUTIVE OFFICE: P.O. Box 1287, Dalton, GA 30722
PLANT: Dalton, GA (P yarn)

JAMES RIVER CORPORATION

(Formerly Crown Zellerbach Corp.)

EXECUTIVE OFFICE: 1 Bush Street, San Francisco, CA 94119
SALES HEADQUARTERS: 3720 Grant Street, Washougal, WA 98671
PLANT: Washougal, WA *Celestra, Fibretex* (P spunbonded)

JOHNSON FILAMENTS

EXECUTIVE OFFICE: See Listing on Page 252.
PLANT: Williston, VT (P monofil)

KIMBERLY-CLARK CORPORATION

EXECUTIVE OFFICE: 1400 Holcomb Bridge Road, Roswell, GA 30076
PLANT: Corinth, MS; Balfour, NC; LaGrange, GA & Neenah, WI *Accord, Duraguard, Evolution* (P spunbonded), *Cyclean, Evolution III* (P spunbonded/meltblown laminate)

LAMBETH CORPORATION

EXECUTIVE OFFICE: 627 Tarkiln Hill Road, New Bedford, MA 02745
PLANT: New Bedford, MA *Lambeth* (E & P monofil)

LAWRENCE HOSE COMPANY

A Consolidated Foods Company

SALES OFFICE: P.O. Box 1838, Burlington, NC 27215
PLANT: Burlington, NC (E monofil-captive)

LORETEX

DIVISION OF OIVIND LORENTZEN, INC.

EXECUTIVE OFFICE: 522 Fifth Avenue, New York, NY 10036
REGIONAL SALES: Northeastern Industrial Park, Guilderland Center, NY 12505
PLANT: Guilderland Center, NY (E film-captive)

MIRAFI INC.

Subsidiary of Dominion Textiles

EXECUTIVE OFFICE: P.O. Box 240967, Charlotte, NC 28224
PLANT: Moultrie, GA (P film-captive)

THE OSTERNECK COMPANY

EXECUTIVE OFFICE: P.O. Box 859, Lumberton, NC 28359
PLANT: Lumberton, NC (P film)
The company weaves carpet backing and industrial goods here.

PHILLIPS FIBERS CORPORATION

Subsidiary of Phillips 66 Company

EXECUTIVE OFFICE: P.O. Box 66, Interstate 85, Greenville, SC 29602
PLANT: Rocky Mount, NC; Seneca & Spartanburg, SC *Marvess* (P yarn, staple & tow)
The company also manufactures *Duon, Petromat, Rufon & Supac* nonwoven fabrics at Seneca, SC.

POLYLOOM CORP. OF AMERICA

EXECUTIVE OFFICE: 1615 N. Broadway, P.O. Box 289, Dayton, TN 37321
PLANT: Dayton, TN *Polyloom* (P split film)

RANGER TEXTILE CORPORATION

(Formerly Gladding Cordage Corporation)

EXECUTIVE OFFICE: Gladding St., South Otselic, NY 13155
PLANT: South Otselic, NY (P monofil)

REEMAY, INC.

EXECUTIVE OFFICE: See Listing on Page 253.
PLANT: Old Hickory, TN *Typar* (P spunbonded)

SARLON INDUSTRIES, INC.
EXECUTIVE OFFICE: 775 N.W. 71st Street, Miami, FL 33150
PLANT: Miami, FL (P monofil & film)

SHAKESPEARE MONOFILAMENT DIVISION
EXECUTIVE OFFICE: See Listing on Page 253.
PLANT: Columbia, SC (P monofil)

SHUFORD MILLS, INC.
EXECUTIVE OFFICE: Highland Avenue & 15th Street, N.E., Hickory, NC 28601
PLANT: Hickory, NC (P film, cordage & twine)

SOLUTION FIBERS INC.
EXECUTIVE OFFICE: P.O. Box 447, 110 West McCarter Road, Lafayette, GA 30728
PLANT: Lafayette, GA *Better Body, Luxene* (P yarn)

SOUTHERN WEAVING, INC.
PLANT: Greenville, SC (P yarn)

STEVENS FIBER DIVISION, STEVENS LINEN ASSOC., INC.
EXECUTIVE OFFICE: P.O. Box 220, Webster, MA 01570
PLANT: Dudley, MA (P staple)

SUNSHINE CORDAGE CORPORATION
EXECUTIVE OFFICE: See Listing on Page 253.
PLANT: Miami, FL (E & P monofil, cordage)

SYNTHETIC INDUSTRIES
EXECUTIVE OFFICE: 309 Lafayette Road, Chickamauga, GA 30707
PLANT: Chickamauga & Dalton, GA (P film & staple)

SYNTHETIC INDUSTRIES, FIBRON DIVISION
EXECUTIVE OFFICE: Chickamauga, GA
PLANT: Chattanooga, TN *Fibri-Cord, Fibri-knit, Fibrilawn, Fibrilon* (P film)

TECHLON FIBERS CORPORATION
EXECUTIVE OFFICE: 3359 Blake Drive, Dalton, GA 30720
PLANT: Dalton, GA (P yarn)

TECHNOTRADE
PLANT: Dalton, GA (P yarn)

TOLARAM FIBERS, INC.
EXECUTIVE OFFICE: See Listing on Page 253.
PLANT: Ansonville, NC (P yarn)

TRUSTITE DIVISION OF FIBERS SOUTH, INC.
EXECUTIVE OFFICE: See Fibers South Listing on Page 254.
PLANT: Clearfield UT *Trustite* & *Tyrite* (P film)

TWINE PRODUCTS CORPORATION
EXECUTIVE OFFICE: 201 Dufossat, P.O. Box 15285, New Orleans, LA 70175
PLANT: New Orleans, LA (P film)

UNITED STATES ROPE COMPANY
EXECUTIVE OFFICE: 711 Hamilton Avenue, Menlo Park, CA 94025
PLANT: Menlo Park, CA (P monofil)

WALL INDUSTRIES, INC.
EXECUTIVE OFFICE: P.O. Box 830, Granite Quarry, NC 28072
PLANT: Granite Quarry, NC (E & P monofil rope and cordage)

WALTRICH PLASTIC CORPORATION
EXECUTIVE OFFICE: P.O. Box D, Walthourville, GA 31333
PLANT: Walthourville, GA (P monofil)

WAYN-TEX INC.
EXECUTIVE SALES OFFICE: Box 648, Dalton, GA 30720
PLANT: Waynesboro, VA
The company weaves *Wayntuf* primary carpet backing (captive).

WELLINGTON PURITAN MILLS (MONTAIR DIV.)
EXECUTIVE OFFICE: Nelson Street, Pilot Mountain, NC 27401
PLANT: Pilot Mountain, NC *Pur-Ty, Welltite* (P yarn & E & P monofil & film)

WELLINGTON SYNTHETIC FIBRES, INC.
EXECUTIVE OFFICE: 52 Courtland Street, Paterson, NJ 07503
PLANT: Leesville & Summerville, SC (P yarn & monofil)
The company also weaves outdoor furniture webs at Leesville.

The following companies are also producing a variety of textile products from olefin: **Cirtex** (P film); **Continental** (P yarn); **Conwed Corp. Conwed Plastic Netting** (P embossed film for netting); **Dicey** (P yarn); **E.I du Pont De Nemours & Company (Inc.)** (E & P embossed film for netting); **Hercules Incorporated, Polymers Division** *Delnet* (E embossed film for netting); **Nalle Inc.** (P embossed film for netting); **Riegel Products Corporation** *Polyweb* (P meltblown); and **The 3M Company** (P spunbonded).

TEXTILE GLASS FIBER

CERTAINTEED CORPORATION
FIBER GLASS REINFORCEMENTS DIVISON
EXECUTIVE OFFICE: P.O. Box 860, Valley Forge, PA 19482
REGIONAL SALES: 1801 E. Parkcourt Place, Bldg. D., Suite 104, Santa Ana, CA 92701
1464 Guava Avenue, Melbourne, FL 32935
306 Bellcourt Parkway, Rosewell, GA 30076
854 Fairway Drive, Bensenville, IL 60106
533-A Mur Len Road, Olathe, KS 66061
1976 Wooddale Blvd., Baton Rouge, LA 70806
103 Kilby Street, Hingham, MA 02043
1450 Souter Street, Troy, MI 48083-2986
2030 52nd Street, Ashtabula, OH 44004
5555 Airport Hwy., Suite 210, Toledo, OH 43615
1400 Union Meeting Road, Blue Bell, PA 19422
West Oak Square Offices, 4009 Anderson Mill Road, Spartanburg, SC 29301

CERTAINTEED CORPORATION *(Continued)*:
4811 Lebanon Road, Hermitage, TN 37076
6326 Hart, Forth Worth, TX 76112
7414 N.E. Hazel Dell Avenue, Suite 207, Vancouver, WA 98665
PLANT: Wichita Falls, TX (roving, woven roving, mat, chopped strand & combination product)

F.G.I. FIBERS, INC.

EXECUTIVE OFFICE: Homestead Place, Amsterdam, NY 12010
PLANT: Amsterdam, NY (roving & chopped)

GAF BUILDING MATERIALS CORPORATION

EXECUTIVE OFFICE: 1361 Alps Road, Wayne, NJ 07670
PLANT: Irwindale, CA *Chemglass* (chopped), Nashville, TN (chopped)

GFT (GLASS FIBER TECHNOLOGY)

EXECUTIVE OFFICE: P.O. Box 670, Chester, SC 29706
PLANT: Chester, SC (wet chop for shingles)

LUNDY TECHNICAL CENTER

EXECUTIVE OFFICE: Pompano Beach, FL 33064
PLANT: Pompano Beach, FL *RoMHOglas* (metalized glass fiber roving & strand and nonwoven metalized glass mat)

MANVILLE SALES CORPORATION

MATS, FIBER & REINFORCEMENTS DIVISION

EXECUTIVE OFFICE: P.O. Box 517, Toledo, OH 43693
PLANT: Waterville, OH & Etowah, TN *Chop-Pak, Dura-Glass, Star Rov, Star Stran* (mat, chopped strand, staple yarn, sliver & rovings)

NICOFIBERS INC.

EXECUTIVE OFFICE: Ironpoint Road, Shawnee, OH 43782
PLANT: Shawnee, OH *Conformat, Consumat, Sumat* (mat)

OWENS-CORNING FIBERGLAS CORPORATION

EXECUTIVE OFFICE: Fiberglas Tower, Toledo, OH 43659
REGIONAL SALES: 2215 Sanders Road, Northbrook, IL 60062
15300 W. 8 Mile, Oak Park, MI 48237
Bldg. 5601, 77 Center Drive, Suite 240, Charlotte, NC 28210
5700 Pearl Road, Suite 104, Cleveland, OH 44129
900 West Valley Road, Suite 1101, Wayne, PA 19087
12880 Hillcrest, Suite 100, Dallas, TX 75230
12301 N.E. 10th Place, Bellevue, WA 98005
PLANT: Huntingdon, PA; Aiken & Anderson, SC & Amarillo, TX *Araton, Beta, Bi-Ply, Fiberglas, S-Glass, S-2 Glass, Type 30* (yarn, roving, woven roving, mat chopped & milled)

PPG INDUSTRIES, INC.

FIBER GLASS PRODUCTS

EXECUTIVE OFFICE: One PPG Place, Pittsburgh, PA 15272
REINFORCEMENT PRODUCTS:
REGIONAL SALES: 23441 South Pointe Drive, Suite 145, Laguna Hills CA 92653.
500 Sugar Mill Road, Bldg. A, Suite 210, Atlanta, GA 30338
246 East Janata Blvd., Suite 200, Lombard, IL 60148
2155 West Big Beaver Road, P.O. Box 3510, Troy, MI 48007-3510
AUTOMOTIVE SALES OFFICE: 2155 West Big Beaver Road, P.O. Box 3510, Troy, MI 48007-3510
TEXTILE PRODUCTS: 1601 East Garrison Blvd., Suite 210, Gastonia, NC 28054
2253 South Avenue, Westfield, NJ 07090
PLANT: Lexington & Shelby, NC (yarn, roving, mat, milled fiber, chopped strand, woven roving & rubber reinforcements)

SUPERIOR GLASS FIBERS, INC.

EXECUTIVE OFFICE: P.O. Box 89, Bremen, OH 43107
PLANT: Bremen, OH (mat)

TABLE 2:
LOCATION OF U.S. MAN-MADE FIBER PRODUCT-PRODUCING PLANTS

STATES & AREA	CELLULOSIC[a]	NONCELLULOSIC						TEXTILE GLASS	GRAND TOTAL
		ACRYLIC[b]	NYLON[c]	OLEFIN	POLYESTER	OTHER[d]	TOTAL		
NEW ENGLAND									
CONNECTICUT				1			1		1
MAINE				1			1		1
MASSACHUSETTS				2	1	1	4		4
RHODE ISLAND				3			3		3
VERMONT			1	1	1		3		3
TOTAL NEW ENGLAND			**1**	**8**	**2**	**1**	**12**		**12**
MID-ATLANTIC									
DELAWARE			1				1		1
MARYLAND			1	1	1	1	4		4
NEW JERSEY				1			1		1
NEW YORK			2	3	1	1	7	1	8
PENNSYLVANIA					1		1	1	2
TOTAL MID-ATLANTIC			**4**	**5**	**3**	**2**	**14**	**2**	**16**
PIEDMONT									
N. CAROLINA			4	11	9	1	25	2	27
S. CAROLINA	2	1	11	7	10	2	31	3	36
VIRGINIA	2	2	7	6	2	2	19		21
WEST VIRGINIA			1		1		2		2
TOTAL PIEDMONT	**4**	**3**	**23**	**24**	**22**	**5**	**77**	**5**	**86**
SOUTH									
ALABAMA	1	2	3	2	1		8		9
FLORIDA		1	2	2			5	1	6
GEORGIA			6	20	1		27		27
LOUISIANA				3			3		3
MISSISSIPPI				2			2		2
TENNESSEE	3		2	4	4		10		13
TEXAS								2	2
TOTAL SOUTH	**4**	**3**	**13**	**33**	**6**		**55**	**3**	**62**
MID-WEST & WEST									
CALIFORNIA			1	2	1		4	1	5
IOWA			1	1			2		2
KANSAS				1			1		1
MICHIGAN				1			1		1
MINNESOTA				1			1		1
MISSOURI									
OHIO				1			1	2	3
OREGON				1			1		1
UTAH				1			1		1
WASHINGTON									
WISCONSIN				1			1		1
TOTAL MIDWEST & WEST			**2**	**10**	**1**		**13**	**3**	**16**
TOTAL NUMBER OF PLANTS	**8**	**6**	**43**	**80**	**34**	**8**	**171**	**13**	**192**
TOTAL NUMBER OF STATES	**4**	**4**	**14**	**26**	**13**	**6**	**29**	**8**	**30**

a. Cellulosic includes rayon, acetate and triacetate.
b. Acrylic includes modacrylic.
c. Nylon includes aramid.
d. Other includes 1 fluorocarbon, 1 PBI, 1 polycarbonate, 1 saran, 3 spandex and 1 vinyon.

TABLE 3:
RAW FIBER EQUIVALENT OF IMPORTS & EXPORTS OF MAN-MADE FIBER, COTTON & WOOL MANUFACTURES
MILLION POUNDS *(REVISED)*

COMMODITY	AVG ANNUAL GROWTH RATE		MAN-MADE FIBER					AVG ANNUAL GROWTH RATE		COTTON					AVG ANNUAL GROWTH RATE		WOOL				
	1971-1981	1982-1986	1982	1983	1984	1985	1986	1971-1981	1982-1986	1982	1983	1984	1985	1986	1971-1981	1982-1986	1982	1983	1984	1985	1986
IMPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC [a]	3.9	26.0	38.2	58.0	72.1	80.9	96.3	-2.8	38.8	28.5	42.1	54.8	56.4	105.9	-7.1	15.5	7.7	7.6	16.3	14.1	13.7
CLOTH [b]	-2.0	23.4	105.7	138.0	170.4	214.3	245.0	3.4	18.9	266.5	346.3	450.8	437.1	532.9	9.0	0.8	25.6	28.1	39.0	37.2	26.4
SUBTOTAL	**-0.8**	**24.1**	**143.9**	**196.0**	**242.5**	**295.2**	**341.3**	**2.8**	**21.3**	**295.0**	**388.4**	**505.6**	**493.5**	**638.8**	**4.0**	**4.8**	**33.3**	**35.7**	**55.3**	**51.3**	**40.1**
MANUFACTURED PRODUCTS																					
WEARING APPAREL	5.5	17.6	486.5	576.0	689.2	800.6	929.8	12.9	18.8	510.5	622.8	759.7	895.5	1015.9	2.7	35.3	46.4	58.8	80.8	137.1	155.5
INDUSTRIAL [c f]	-29.1	26.3	1.1	1.3	0.5	0.9	2.7	0.5	46.9	10.0	14.3	37.7	46.2	46.6			NOMINAL QUANTITIES INCLUDED IN ALL OTHER				
HOME FURNISHINGS [d] }	6.4	59.4	66.5	296.1	410.4	394.3	429.2	4.8	28.6	67.0	78.0	140.3	165.7	183.0	6.5	33.8	19.6	34.8	52.1	60.5	62.8
ALL OTHER [e]								0.3	15.7	14.7	31.9	22.2	28.3	26.3	-11.3	20.7	0.8	2.6	1.2	1.3	1.7
SUBTOTAL	**5.3**	**25.2**	**554.1**	**873.4**	**1100.1**	**1195.8**	**1361.7**	**10.8**	**20.6**	**602.2**	**747.0**	**959.9**	**1135.7**	**1271.8**	**3.2**	**34.7**	**66.8**	**96.2**	**134.1**	**198.9**	**220.0**
TOTAL IMPORTS	**3.5**	**25.0**	**698.0**	**1069.4**	**1342.6**	**1491.0**	**1703.0**	**6.9**	**20.8**	**897.2**	**1135.4**	**1465.5**	**1629.2**	**1910.6**	**3.5**	**27.0**	**100.1**	**131.9**	**189.4**	**250.2**	**260.1**
EXPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC [a]	19.6	4.5	40.2	35.3	38.3	51.1	47.9	7.1	-13.7	30.1	31.2	20.2	25.8	16.7	-4.0	6.5	4.9	4.0	2.7	9.1	6.3
CLOTH [b]	12.5	1.3	174.8	148.6	152.6	158.6	184.3	-0.2	10.5	84.8	59.4	64.8	82.3	126.4	14.3	13.2	1.4	1.1	1.4	1.6	2.3
SUBTOTAL	**13.5**	**1.9**	**215.0**	**183.9**	**190.9**	**209.7**	**232.2**	**1.0**	**5.6**	**114.9**	**90.6**	**85.0**	**108.1**	**143.1**	**-0.7**	**8.1**	**6.3**	**5.1**	**4.1**	**10.7**	**8.6**
MANUFACTURED PRODUCTS																					
WEARING APPAREL	22.3	-0.1	75.2	70.8	79.4	65.2	74.9	15.0	-2.0	80.0	72.1	68.3	55.5	73.9	16.1	7.0	2.9	3.0	2.7	3.8	3.8
INDUSTRIAL [c]	24.0	12.9	27.8	23.2	31.3	30.4	46.3	0.1	10.1	14.3	11.6	15.0	16.5	21.0			NOMINAL QUANTITIES INCLUDED IN ALL OTHER				
HOME FURNISHINGS [d]	22.0	7.2	65.9	10.7	102.9	70.3	86.8	9.1	-2.9	41.0	44.6	37.2	32.6	36.4	-14.3	0	0.2	0.2	0.2	0.1	0.2
ALL OTHER [e]	10.7	9.7	54.6	172.1	83.3	73.6	79.1	6.0	-34.2	3.2	0.7	0.6	0.5	0.6	5.2	1.7	1.4	1.5	1.8	1.2	1.5
SUBTOTAL	**18.8**	**6.4**	**223.5**	**276.8**	**296.9**	**239.5**	**287.1**	**10.2**	**-1.2**	**138.5**	**129.0**	**121.1**	**105.1**	**131.9**	**6.1**	**5.1**	**4.5**	**4.7**	**4.7**	**5.1**	**5.5**
TOTAL EXPORTS	**15.8**	**4.3**	**438.5**	**460.7**	**487.8**	**449.2**	**519.3**	**5.0**	**2.1**	**253.4**	**219.6**	**206.1**	**213.2**	**275.0**	**2.3**	**6.9**	**10.8**	**9.8**	**8.8**	**15.8**	**14.1**
NET EXPORTS (+) OR NET IMPORTS (-)			**-259.5**	**-608.7**	**-854.8**	**-1041.8**	**-1183.7**			**-643.8**	**-915.8**	**-1259.4**	**-1416.0**	**-1635.6**			**-89.3**	**-122.1**	**-180.6**	**-234.4**	**-246.0**

SOURCE: U.S. Department of Agriculture, Cotton and Wool Outlook & Situation.

a. Includes sliver, tops, roving, plied (textured and other), thrown and spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here; rather they are included in Column 13 page 52 of the March 1987 ***Organon.***

Man-made fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980-1986 only; the corresponding quantities for each year are, respectively (in millions of pounds): 142.4, 254.0, 166.2, 83.1, 108.8, 162.0 & 95.2.

b. Includes broad & narrow woven fabrics and knit cloth.

c. Includes tire cord and tire cord fabric for man-made fiber data.

d. Includes carpets and rugs. Lace window curtains are in All Other.

e. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc. For 1983, 1984, 1985 & 1986 man-made fiber include imports of soft-sided luggage. The corresponding quantities for each year are, respectively, 180.5, 228.0, 157.4 & 169.3.

f. For 1984, 1985 & 1986 cotton include imports of soft-sided luggage. The corresponding quantities for each year are, respectively, 18.7, 8.2, & 30.1.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with man-made fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 4:
QUARTERLY U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

	1ST QUARTER 1986			2ND QUARTER 1986			3RD QUARTER 1986			4TH QUARTER 1986			1ST QUARTER 1987			2ND QUARTER 1987		
PRODUCTS	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]
RAYON & ACETATE																		
YARN+MONOFILAMENTS	4.1	1.7	2.4 I	4.9	2.1	2.8 I	3.7	1.8	1.9 I	4.2	1.7	2.5 I	3.0	1.8	1.2 I	2.5	1.5	1.0 I
STAPLE+TOW	4.2	10.5	6.3 E	3.9	5.4	1.5 E	4.9	7.8	2.9 E	4.4	8.9	4.5 E	4.1	9.1	5.0 E	3.9	8.5	4.6 E
WASTE	+	0.5	0.5 E	0.1	0.6	0.5 E	+	0.6	0.6 E	+	0.6	0.6 E	0	0.4	0.4 E	+	0.2	0.2 E
SUBTOTAL	**8.3**	**12.7**	**4.4 E**	**8.9**	**8.1**	**0.8 I**	**8.6**	**10.2**	**1.6 E**	**8.6**	**11.2**	**2.6 E**	**7.1**	**11.3**	**4.2 E**	**6.4**	**10.2**	**3.8 E**
NONCELLULOSIC FIBERS																		
YARN+MONOFILAMENTS	25.6	76.3	50.7 E	29.5	70.3	40.8 E	33.7	55.0	21.3 E	37.2	54.1	16.9 E	34.1	55.2	21.1 E	29.1	57.3	28.2 E
STAPLE+TOW	46.0	72.8	26.8 E	42.9	59.5	16.6 E	46.1	57.1	11.0 E	47.8	74.4	26.6 E	48.9	94.7	45.8 E	46.1	93.9	47.8 E
WASTE	10.7	30.0	19.3 E	10.4	31.4	21.0 E	9.6	26.6	17.0 E	9.6	35.6	26.0 E	13.0	30.7	17.7 E	11.8	28.9	17.1 E
SUBTOTAL	**82.3**	**179.1**	**96.8 E**	**82.8**	**161.2**	**78.4 E**	**89.4**	**138.7**	**49.3 E**	**94.6**	**164.1**	**69.5 E**	**96.0**	**180.6**	**84.6 E**	**87.0**	**180.1**	**93.1 E**
TOTAL FIBER ABOVE	**90.6**	**191.8**	**101.2 E**	**91.7**	**169.3**	**77.6 E**	**98.0**	**148.9**	**50.9 E**	**103.2**	**175.3**	**72.1 E**	**103.1**	**191.9**	**88.8 E**	**93.4**	**190.3**	**96.9 E**
MAN-MADE FIBER MANUFACTURES																		
SLIVER, TOPS & ROVING	1.0	1.4	0.4 E	0.8	1.1	0.3 E	0.9	0.8	0.1 I	0.7	1.3	0.6 E	1.0	1.1	0.1 E	2.4	1.1	1.3 I
SPUN YARNS	12.4	10.2	2.2 I	16.9	11.8	5.1 I	18.9	7.2	11.7 I	16.4	9.0	7.4 I	14.5	8.2	6.3 I	18.3	11.2	7.1 I
THREAD & CRAFT YARNS	1.3	1.0	0.3 I	1.3	1.4	0.1 E	1.2	0.9	0.3 I	0.9	1.7	0.8 E	2.3	1.5	0.8 I	2.3	2.0	0.3 I
TIRE CORD & FABRIC	0.6	11.7	11.1 E	0.7	12.8	12.1 E	0.6	9.0	8.4 E	0.8	12.8	12.0 E	0.9	13.6	12.7 E	1.4	14.8	13.4 E
WOVEN FABRIC	52.5	30.2	22.3 I	60.4	32.3	28.1 I	53.3	36.8	16.5 I	41.0	35.3	5.7 I	42.6	33.9	8.7 I	50.2	42.7	7.5 I
KNIT FABRIC	2.4	2.8	0.4 E	2.3	3.1	0.8 E	3.5	2.9	0.6 I	4.3	2.9	1.4 I	4.8	2.5	2.3 I	3.9	3.2	0.7 I
NARROW FABRIC	7.0	8.3	1.3 E	7.3	10.5	3.2 E	5.9	9.3	3.4 E	5.1	9.9	4.8 E	3.3	10.6	7.3 E	4.1	11.5	7.4 E
APPAREL - KNIT	81.9	}16.6	195.9 I	112.1	}19.1	207.7 I	149.3	}19.4	266.4 I	87.9	}19.8	184.5 I	95.4	}19.7	224.0 I	139.1	}21.1	256.1 I
- NOT KNIT	130.6			114.7			136.5			116.4			148.3			138.1		
HOME FURNISHINGS	}115.1	17.7	}80.3 I	115.4	20.7	}75.5 I	108.2	18.5	}68.6 I	114.5	29.9	}62.8 I	111.3	22.3	}67.9 I	128.6	27.9	}77.1 I
OTHER		17.1			19.2			21.1			21.8			21.1			23.6	
TOTAL MANUFACTURES	**404.8**	**117.0**	**287.8 I**	**431.9**	**132.0**	**299.9 I**	**478.3**	**125.9**	**352.4 I**	**388.0**	**144.4**	**243.6 I**	**424.4**	**134.5**	**289.9 I**	**488.4**	**159.1**	**329.3 I**
TOTAL MAN-MADE FIBER & MANUFACTURES	**495.4**	**308.8**	**186.6 I**	**523.6**	**301.3**	**222.3 I**	**576.3**	**274.8**	**301.5 I**	**491.2**	**319.7**	**171.5 I**	**527.5**	**326.4**	**201.1 I**	**581.8**	**349.4**	**232.4 I**
COTTON MANUFACTURES	**512.1**	**57.3**	**454.8 I**	**463.1**	**70.3**	**392.8 I**	**486.0**	**68.5**	**417.5 I**	**449.3**	**78.7**	**370.6 I**	**600.1**	**72.5**	**527.6 I**	**563.9**	**74.2**	**489.7 I**
WOOL MANUFACTURES	**48.5**	**3.7**	**44.8 I**	**67.4**	**4.7**	**62.7 I**	**93.3**	**3.2**	**90.1 I**	**66.4**	**4.4**	**62.0 I**	**51.5**	**4.4**	**47.1 I**	**76.6**	**5.8**	**70.8 I**

SOURCES: The man-made fiber import and export data are from the U.S. Census Bureau Reports IM146 and EM 546.

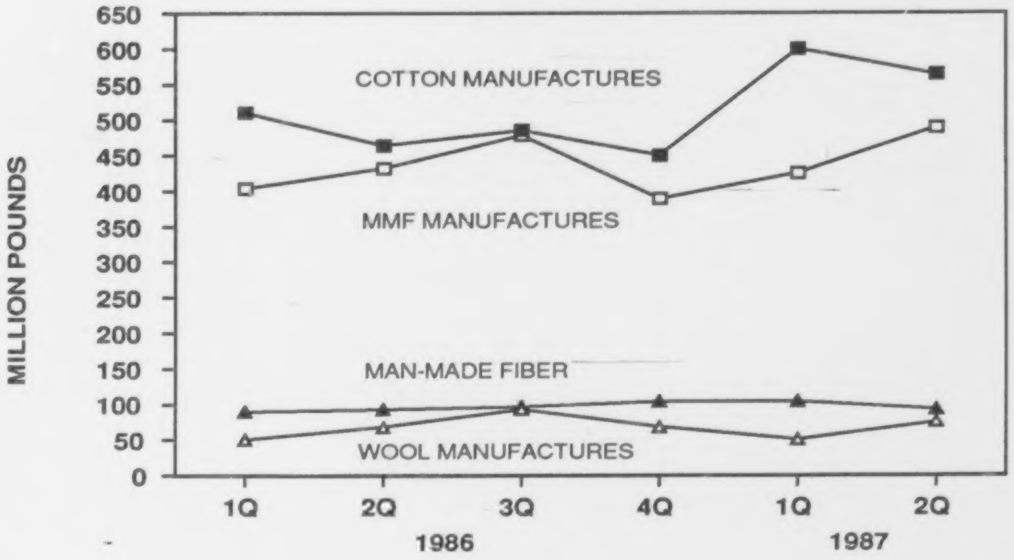
The man-made, cotton and wool manufactures data are from U.S. Department of Agriculture *"Cotton and Wool Outlook Situation."*

The total man-made fiber and manufactures import, export and balance data of this table cover the cellulosic and noncellulosic fibers only; textile glass fiber is excluded.

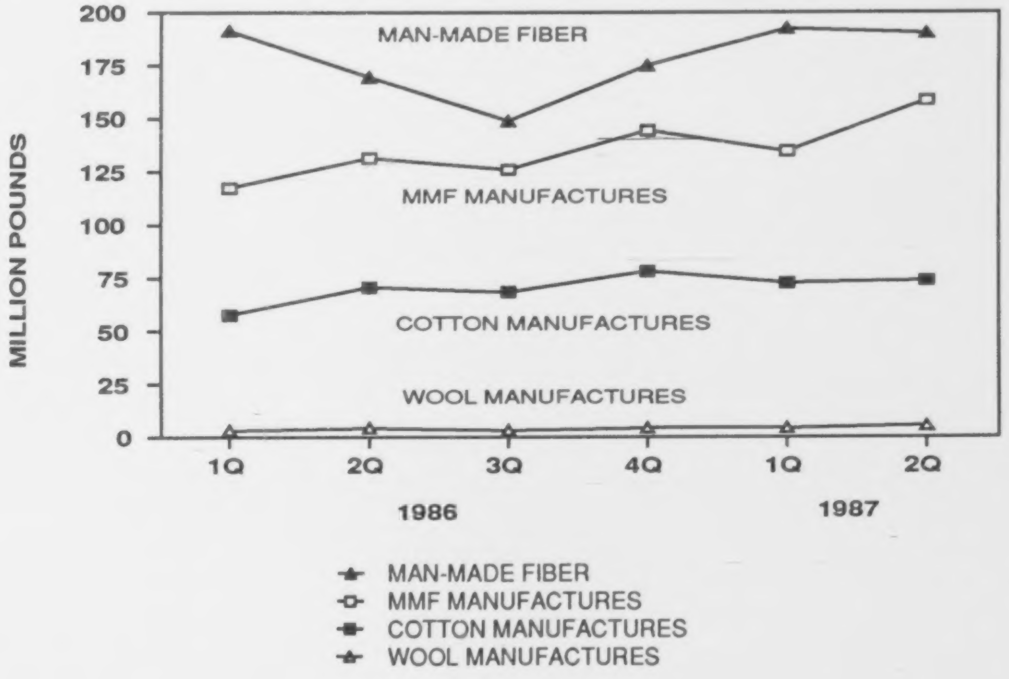
a. E Export Balance; I Import Balance.

GRAPH 1:
IMPORTS VS. EXPORTS OF MAN-MADE FIBER, COTTON & WOOL MANUFACTURES
MILLION POUNDS

IMPORTS



EXPORTS



GRAPH 2:
IMPORTS VS. EXPORTS OF MAN-MADE FIBER

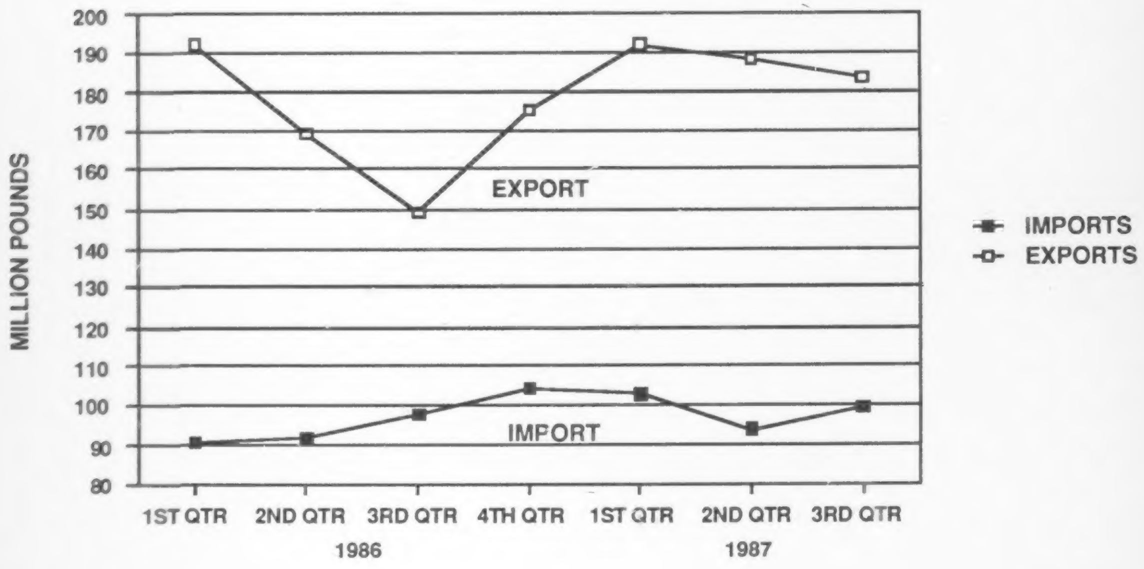


TABLE 5:
MAN-MADE FIBER QUARTERLY TRADE BALANCE
MILLION POUNDS

	CELLULOSIC YARN & MONOFIL			CELLULOSIC STAPLE+TOW			NONCELLULOSIC YARN & MONOFIL			NONCELLULOSIC STAPLE+TOW			CELLULOSIC WASTE			NONCELLULOSIC WASTE			TOTAL		
	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL
1986																					
1ST QUARTER	4.1	1.7	-2.4	4.2	10.5	+6.3	25.5	76.3	+50.8	46.0	72.9	+26.9	+	0.5	+0.5	10.7	30.0	+19.3	90.5	191.9	+101.4
2ND QUARTER	4.9	2.1	-2.8	3.9	5.3	+1.4	29.5	70.2	+40.7	42.9	59.5	+16.6	+	0.6	+0.6	10.5	31.4	+20.9	91.7	169.1	+77.4
3RD QUARTER	3.7	1.8	-1.9	4.9	7.8	+2.9	33.6	55.0	+21.4	45.9	57.1	+11.2	+	0.6	+0.6	9.5	26.6	+17.1	97.6	148.9	+51.3
4TH QUARTER	4.2	1.7	-2.5	4.4	9.0	+4.6	37.2	54.1	+16.9	48.7	74.3	+25.6	+	0.6	+0.6	9.6	35.7	+26.1	104.1	175.4	+71.3
TOTAL	16.9	7.3	-9.6	17.4	32.6	+15.2	125.8	255.6	+129.8	183.5	263.8	+80.3	+	2.3	+2.3	40.3	123.7	+83.4	383.9	685.3	+301.4
1987																					
1ST QUARTER	3.0	1.8	-1.2	4.1	9.1	+5.0	34.1	55.2	+21.1	48.9	94.7	+45.8	0	0.4	+0.4	13.0	30.7	+17.7	103.1	191.9	+88.8
2ND QUARTER	2.5	1.5	-1.0	3.9	8.5	+4.6	29.1	57.3	+28.2	46.1	91.9	+45.8	+	0.2	+0.2	11.8	28.9	+17.1	93.4	188.3	+94.9
3RD QUARTER	2.8	1.4	-1.4	3.0	13.2	+10.2	30.8	60.1	+29.3	52.4	85.2	+32.8	0	0.2	+0.2	10.6	23.8	+13.2	99.6	183.9	+84.3
4TH QUARTER																					
TOTAL	8.3	4.7	-3.6	11.0	30.8	+19.8	94.0	172.6	+78.6	147.4	271.8	+124.4	0.0	0.8	+0.8	35.4	83.4	+48.0	296.1	564.1	+268.0

SOURCES: The fiber import and export data are from the U.S. Bureau of the Census (Reports IM145X and EM522).

TABLE 6:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEMS & COUNTRY	1987												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	138	0	43	42	21	0	0	0				244	30
BRAZIL	86	29	0	28	54	88	29	44	64				422	249
CANADA	425	368	175	323	285	70	137	180	248				2211	3701
GERMANY, FED. REP.	442	229	561	363	332	352	370	499	426				3574	3830
JAPAN	209	10	39	39	6	38	66	16	63				486	304
MEXICO	3	15	10	102	28	18	58	111	104				449	469
NETHERLANDS	101	43	105	147	38	40	42	176	63				755	1556
ALL OTHER COUNTRIES [a]	1	-3	1	0	1	27	14	80	30				157	1473
TOTAL CELLULOSIC YARN	1267	835	891	1045	786	654	716	1106	998				8298	11612
CELLULOSIC STAPLE+TOW														
CANADA	749	1188	1356	1230	841	1185	420	1115	885				8969	8904
ITALY	88	0	59	51	61	35	78	149	66				587	248
JAPAN	59	168	168	18	98	61	59	60	94				785	834
SWEDEN	43	0	0	48	89	39	0	0	0				219	445
UNITED KINGDOM	46	5	73	24	0	41	42	27	41				299	625
ALL OTHER COUNTRIES [b]	0	63	4	7	0	36	5	0	0				115	2003
TOTAL CELLULOSIC STAPLE+TOW	985	1424	1660	1378	1089	1397	604	1351	1086				10974	13059
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1408	1377	559	560	653	849	671	2122	893				9092	8744
CANADA	890	1976	1613	1605	1802	1214	1426	1726	1624				13876	11430
CHINA, PRC	0	0	94	0	267	30	0	0	0				391	60
COSTA RICA	729	515	642	589	590	564	585	489	510				5213	4862
DENMARK	31	62	0	0	32	30	30	0	30				215	122
FRANCE	686	685	659	648	306	678	331	91	72				4156	5834
GERMANY, FED. REP.	1744	2397	2421	2740	1373	1347	2176	2052	1900				18150	16286
IRELAND	81	58	0	0	106	79	54	0	35				413	322
ISRAEL	162	233	90	249	321	97	165	300	228				1845	2598
ITALY	1202	866	1292	1254	940	985	1020	394	1748				9701	9214
JAPAN	992	570	670	661	525	548	523	691	492				5672	6241
KOREA, REP. OF	41	21	22	20	60	25	25	25	72				311	223
MEXICO	1167	2037	2527	1939	1660	871	1829	1268	1757				15055	9112
NETHERLANDS	93	184	151	99	61	62	154	90	83				977	1106
SINGAPORE	73	0	66	44	21	23	49	55	0				331	90
SWITZERLAND	253	2	64	2	9	1	15	+	2				348	438
TAIWAN	14	39	63	46	34	116	104	89	106				611	819
UNITED KINGDOM	735	596	844	894	483	670	610	773	821				6426	5265
ALL OTHER COUNTRIES [c]	151	142	119	144	48	86	194	226	41				1151	6404
TOTAL NONCELLULOSIC YARN	10452	11760	11896	11494	9291	8275	9961	10391	10414				93934	89170
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	61	18	130	177	38	312	274	287	240				1537	244
BELGIUM	21	36	18	18	53	1	+	17	0				164	379
BRAZIL	0	438	236	379	262	297	0	61	0				1673	608
CANADA	3125	3071	3201	2248	2236	2507	2725	1771	2893				23777	16770
FRANCE	955	588	532	585	520	1193	279	766	639				6057	7867
GERMANY, FED. REP.	2586	2359	2194	2463	1766	1951	2805	3147	4935				24206	23371
IRELAND	109	0	0	0	0	344	91	122	394				1060	218
ISRAEL	62	0	31	0	291	36	0	36	1				457	361
ITALY	2265	1688	2200	980	344	1183	100	853	1304				10917	15893
JAPAN	1849	1582	2230	2472	1577	2390	1698	2317	1574				17689	16990
KOREA, REP. OF	935	947	655	614	1247	956	1106	1254	819				8533	3687
MALAYSIA	48	95	0	95	87	95	0	48	48				516	96
MEXICO	1586	1232	1784	824	2080	1303	3161	3339	2043				17352	11371
ROMANIA	372	58	590	88	516	749	339	615	271				3598	1763
SWITZERLAND	71	152	198	89	17	70	66	34	96				793	624
TAIWAN	1911	1559	1338	2580	1985	2003	1774	2390	2019				17559	14882
UNITED KINGDOM	777	1280	1522	1264	1635	1032	953	1339	687				10489	17496
ALL OTHER COUNTRIES [d]	24	13	135	72	103	7	80	85	475				994	2172
TOTAL NONCELLULOSIC STAPLE+TOW	16757	15116	16994	14948	14757	16429	15451	18481	18438				147371	134792

+ Less than 1 thousand pounds.

a. Italy 79, Taiwan 40, France 15, Singapore 15, Australia 5, Belgium 1, Korea, Rep. of 1, United Kingdom 1.

b. Austria 76, Germany, Fed. Rep. 23, France 8, Venezuela 4, Finland 3, Belgium 1.

c. Spain 241, Romania 166, Australia 110, New Zealand 110, South Africa 88, Argentina 83, Finland 61, Austria 48, Chile 46, Turkey 42, Iran 39, Morocco 33, Norway 32, Philippines 27, Sweden 9, Bangladesh 6, Thailand 4, Brazil 3, Greece 1, Guatemala 1, Iceland 1, El Salvador, Hong Kong.

d. Spain 425, Australia 182, Denmark 138, Costa Rica 91, Hong Kong 83, Turkey 38, China, PRC 17, Netherlands 16, Portugal 2, India 1, Sweden 1, Philippines.

TABLE 7:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1987												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
CELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	29	139	0	45	57	20	0	0	0				290	481
OTHER	310.0130 & .0230 [a]	1237	691	891	1000	729	607	704	1026	969				7854	10399
MONOFILAMENTS	309.0310 & .0610	0	5	0	0	0	0	0	+	0				5	15
STRIPS, $1/LB & UNDER	309.2000*	1	0	0	0	0	27	12	80	29				149	717
SUBTOTAL ABOVE		**1267**	**835**	**891**	**1045**	**786**	**654**	**716**	**1106**	**998**				**8298**	**11612**
STAPLE	309.4320 & .4325	867	1402	1569	1336	1072	1397	542	1116	968				10269	12168
GROUPED FILAMENTS	309.3010 & .3310	118	22	91	42	17	0	62	235	118				705	891
SUBTOTAL ABOVE		**985**	**1424**	**1660**	**1378**	**1089**	**1397**	**604**	**1351**	**1086**				**10974**	**13059**
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	**0**	**0**	**0**	**7**	**0**	**21**	**0**	**0**	**0**				**28**	**82**
NONCELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	142	163	113	123	147	150	188	228	170				1424	2254
MORE THAN 450 DENIER	310.0108 & .0208	2592	2933	3169	3131	1822	1660	1917	1752	2810				21786	23661
- POLYESTER	310.0110 & .0210	1000	2243	1670	1399	1016	650	1165	1062	1102				11307	9063
- OTHER	310.0114 & .0214	1876	2010	1396	1300	1785	1867	1595	3246	1980				17055	13634
OTHER - NYLON	310.0149 & .0249	2008	2121	2350	2348	1695	1694	2086	1757	2033				18092	16312
- POLYESTER	310.0150 & .0250	1918	1327	2088	2006	1590	1438	1693	1191	1329				14580	17678
- OTHER	310.0170 & .0270 [b]	445	486	610	680	713	358	725	622	443				5082	3515
MONOFILAMENTS	309.0200 & .0330 [c]	272	281	265	263	354	297	329	310	336				2707	1911
STRIPS, OVER $1/LB	309.2100 & .2500*	199	196	235	244	169	161	263	223	211				1901	1142
SUBTOTAL ABOVE		**10452**	**11760**	**11896**	**11494**	**9291**	**8275**	**9961**	**10391**	**10414**				**93934**	**89170**
STAPLE - NYLON	309.4331 & .4351	5346	4106	5357	3521	2137	3037	1984	3374	3202				32064	37335
- POLYESTER	309.4336 & .4361	5335	5030	5122	4833	6596	5980	6805	7910	8667				56278	26790
- ACRYLIC	309.4366	1216	839	1202	1285	1073	1724	1521	1617	1516				11993	12522
- OLEFIN	309.4371	2	153	42	38	21	28	37	41	77				439	1702
- OTHER	309.4341 & .4390	479	904	1233	1011	918	1567	1152	1261	1103				9628	12477
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3012	2523	2383	2409	2436	2723	2548	2867	2765				23666	30122
POLYESTER	309.3040 & .3340	367	279	441	383	260	145	297	53	149				2374	1400
ACRYLIC	309.3050 & .3350	861	1144	1073	1290	1015	1104	947	1234	896				9564	10351
OTHER	309.3065 & .3365	139	138	141	178	301	121	160	124	63				1365	2093
SUBTOTAL ABOVE		**16757**	**15116**	**16994**	**14948**	**14757**	**16429**	**15451**	**18481**	**18438**				**147371**	**134792**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2279	2182	3100	1454	2026	2732	2280	2160	2151				20364	16648
- POLYESTER	309.6630	1077	823	1475	867	525	1035	377	688	321				7188	4743
- ACRYLIC	309.6645	20	53	0	18	41	0	18	53	29				232	289
- OTHER	309.6660	415	518	810	415	460	339	269	199	399				3824	6385
NOILS & GARNETTED FIBERS	309.7000*	0	0	0	0	0	31	0	0	31				62	121
OTHER WASTE, ADVANCED	309.7525 - .7555	42	153	67	638	1016	243	848	551	266				3824	2482
SUBTOTAL ABOVE		**3833**	**3729**	**5452**	**3392**	**4068**	**4380**	**3792**	**3651**	**3197**				**35494**	**30668**
TOTAL MAN-MADE ABOVE		33294	32864	36893	32264	29991	31156	30524	34980	34133				296099	279383
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0	0	2	0	3				5	1
- NONCELLULOSIC	310.1015[d] & .1205[e]	142	337	528	392	440	487	299	322	381				3328	9217
OTHER - CELLULOSIC	310.1030 & .1535 [f]	8	85	77	43	19	72	12	72	16				404	389
- NONCELLULOSIC	310.1050 & .1070 [g]	336	339	306	285	157	214	252	266	289				2444	3319
SPUN YARN - CELLULOSIC	310.4005 & .4030 [h]	151	112	165	134	60	143	165	222	77				1229	2108
- OTHER	310.4015 & .4027 [i]	2574	3765	3067	3780	4318	3892	3561	2543	2389				29889	33975
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	1493	1673	1629	2004	1943	2792	2993	2628	2849				20004	12297
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310 [j]	831	662	737	690	689	915	811	562	844				6741	3690
SLIVER, TOPS & ROVING	309.9000	383	279	281	607	585	1021	594	260	716				4726	2639
TEXTILE GLASS FIBER	309.2800 & .2900 [k]	1431	1868	1653	2285	1279	2046	2459	4637	4240				21898	18237
GRAND TOTAL ABOVE		40643	41984	45336	42484	39481	42738	41672	46492	45937				386757	365255

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

+ Less than 1 thousand pounds.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 8:
U.S. EXPORTS OF MAN-MADE FIBERS
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1987												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
CELLULOSIC FIBERS															
FILAMENT YARN[a]															
TEXTURED	310.0004	43	100	101	24	17	12	36	28	135				496	85
OTHER[b]	310.0026	475	365	639	468	654	306	503	372	260				4042	5337
MONOFILAMENTS	309.0110	0	0	0	2	0	+	39	0	34				75	220
STRIPS	309.2210	1	1	40	2	13	0	3	11	4				75	14
SUBTOTAL ABOVE		**519**	**466**	**780**	**496**	**684**	**318**	**581**	**411**	**433**				**4688**	**5656**
STAPLE+TOW-RAYON	309.4222	3930	1732	3107	2705	2582	2700	4047	4355	4372				29530	22355
STAPLE-ACETATE	309.4219	33	112	156	112	215	164	144	96	159				1191	1287
SUBTOTAL ABOVE		**3963**	**1844**	**3263**	**2817**	**2797**	**2864**	**4191**	**4451**	**4531**				**30721**	**23642**
WASTE, ADVANCED&NOT ADVANCED	309.7400	**231**	**169**	**47**	**134**	**52**	**35**	**50**	**113**	**12**				**843**	**1531**
NONCELLULOSIC FIBERS															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	2678	2441	2542	2077	2760	3503	2614	3644	3286				25545	18411
- HIGH TENACITY[c]	310.0027	7294	6373	5419	6719	7072	5385	8394	8212	4926				59794	55288
- OTHER	310.0029	636	684	605	753	883	1054	571	639	1020				6845	7989
POLYESTER - TEXTURED	310.0010	2151	2949	3145	2473	2079	1983	1523	1752	1467				19522	61790
- HIGH TENACITY[c]	310.0032	1691	1913	2308	1475	1806	2286	3231	2612	2259				19581	17041
- OTHER[d]	310.0034	160	233	152	75	201	161	122	139	112				1355	2099
OTHER - TEXTURED	310.0014	1053	1386	1502	1133	1406	1995	1520	1344	1405				12744	18318
- OLEFIN	310.0040	74	35	53	55	16	72	18	157	88				568	1511
- OTHER	310.0044	389	577	654	748	445	737	488	433	405				4876	4757
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	416	687	641	417	553	676	370	621	556				4937	3575
POLYESTER	309.0140	322	523	524	587	1447	1142	954	1154	1429				8082	4384
OTHER	309.0170	478	492	875	480	718	656	502	617	628				5446	3373
STRIPS	309.2220 & .2270	259	424	470	342	537	360	203	375	346				3316	2970
SUBTOTAL ABOVE		**17601**	**18717**	**18890**	**17334**	**19923**	**20010**	**20510**	**21699**	**17927**				**172611**	**201506**
STAPLE - NYLON	309.4240	2060	1757	2615	1445	2092	1258	1694	1315	1996				16232	10131
- POLYESTER	309.4242	18819	17019	16575	14494	13960	15011	11006	13848	12834				133566	73748
- ACRYLIC	309.4245	4792	3355	2531	2440	4482	5365	4746	4997	7953				40661	45935
- OLEFIN	309.4246	1893	2016	2642	2075	1583	1203	1849	1701	2060				17022	9904
- OTHER	309.4247	1004	3194	2027	2959	4586	7965	2919	1998	1925				28577	12389
GROUPED FILAMENTS															
NYLON	309.3220	283	737	386	275	259	470	401	350	394				3555	4164
POLYESTER[d]	309.3240	1941	1832	1578	2318	1728	1811	1233	1095	1939				15475	15451
ACRYLIC	309.3250 & .3255	1653	2207	1805	1980	2329	1768	2395	2116	2415				16668	17797
SUBTOTAL ABOVE		**32445**	**32117**	**30159**	**27986**	**31019**	**34851**	**26243**	**27420**	**31516**				**271756**	**189519**
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	1021	1143	1095	1164	1260	1066	225	892	641				8507	6139
- POLYESTER	309.7630	2830	4649	5303	5570	5293	4829	3927	4753	4135				41289	45639
- ACRYLIC	309.7640	1086	1362	1545	432	428	701	456	681	664				7355	4527
- OTHER	309.7660	2543	3090	5034	2174	2633	3380	1485	2039	3866				26244	31745
SUBTOTAL ABOVE		**7480**	**10244**	**12977**	**9340**	**9614**	**9976**	**6093**	**8365**	**9306**				**83395**	**88050**
TOTAL MAN-MADE ABOVE		**62239**	**63557**	**66116**	**58107**	**64089**	**68054**	**57668**	**62459**	**63725**				**564014**	**509904**
TEXTILE GLASS FIBER	309.2700 & .9700	5992	6585	7160	7265	7967	7821	6250	7599	6180				62819	44832
GRAND TOTAL ABOVE		68231	70142	73276	65372	72056	75875	63918	70058	69905				626833	554736

SOURCE: U.S. Census Bureau Report EM522.

+ Less than 1 thousand pounds.

a. Includes thrown, singles and plied yarn.

b. Includes rayon tire cord and cord fabric.

c. Includes noncellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

TABLE 9:
QUARTERLY MAN-MADE FIBER DATA

MILLION POUNDS

ITEM	1985					1986					1987				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						YARN+MONOFILAMENTS									
CELLULOSIC YARN [d]															
PRODUCTION	52.8	54.5	48.4	48.9	204.6	54.3	54.7	54.1	51.7	214.8	46.2	46.7	45.2		
SHIPMENTS - DOMESTIC	44.4	48.0	46.6	48.1	187.1	48.6	50.4	47.7	45.4	192.1	39.2	43.6	40.2		
- EXPORT	7.3	6.0	4.6	5.1	23.0	4.7	5.1	4.9	5.5	20.2	5.0	5.9	6.1		
TOTAL SHIPMENTS	51.7	54.0	51.2	53.2	210.1	53.3	55.5	52.6	50.9	212.3	44.2	49.5	46.3		
ENDING STOCK	18.9	19.4	16.6	12.3		13.3	12.5	14.0	14.8		16.8	14.0	12.9		
NYLON															
PRODUCTION	370.8	360.3	386.7	397.0	1514.8	396.9	396.5	398.3	414.6	1606.3	414.1	427.5	432.9		
SHIPMENTS - DOMESTIC	323.7	353.0	368.9	371.8	1417.4	363.4	368.7	377.7	370.6	1480.4	389.3	394.8	405.8		
- EXPORT	33.5	25.0	33.3	26.6	118.4	26.7	28.2	25.1	32.8	112.8	32.1	37.9	33.7		
TOTAL SHIPMENTS	357.2	378.0	402.2	398.4	1535.8	390.1	396.9	402.8	403.4	1593.2	421.4	432.7	439.5		
ENDING STOCK	154.3	136.6	121.1	119.7		126.5	126.1	121.6	132.8		125.5	120.3	113.7		
OLEFIN [a]															
PRODUCTION	231.6	251.1	234.5	237.3	954.5	245.9	255.7	259.5	296.6	1057.7	255.8	283.9	287.4		
SHIPMENTS - DOMESTIC	223.6	246.0	234.4	233.6	937.6	241.3	258.4	257.8	291.7	1049.2	261.5	281.8	287.5		
- EXPORT	3.6	3.8	3.2	2.9	13.5	2.4	2.9	2.6	2.6	10.5	2.7	1.7	1.8		
TOTAL SHIPMENTS	227.2	249.8	237.6	236.5	951.1	243.7	261.3	260.4	294.3	1059.7	264.2	283.5	289.3		
ENDING STOCK	65.9	67.2	64.1	64.9		67.1	61.5	60.6	62.9		54.5	54.9	53.0		
POLYESTER															
PRODUCTION	316.2	340.8	345.9	318.0	1320.9	322.2	271.5	285.5	293.5	1172.7	287.7	303.3	293.9		
SHIPMENTS - DOMESTIC	290.1	311.6	309.2	293.3	1204.2	284.8	253.5	273.7	280.4	1092.4	267.8	286.2	281.8		
- EXPORT	17.7	30.6	29.0	31.0	108.3	21.8	23.8	14.3	17.4	77.3	15.4	17.4	14.8		
TOTAL SHIPMENTS	307.8	342.2	338.2	324.3	1312.5	306.6	277.3	288.0	297.8	1169.7	283.2	303.6	296.6		
ENDING STOCK	107.9	106.5	114.2	107.9		123.5	117.7	115.2	110.9		115.4	115.1	112.4		
TOTAL NONCELLULOSIC ABOVE															
PRODUCTION	918.6	952.2	967.1	952.3	3790.2	965.0	923.7	943.3	1004.7	3836.7	957.6	1014.7	1014.2		
SHIPMENTS - DOMESTIC	837.4	910.6	912.5	898.7	3559.2	889.5	880.6	909.2	942.7	3622.0	918.6	962.8	975.1		
- EXPORT	54.8	59.4	65.5	60.5	240.2	50.9	54.9	42.0	52.8	200.6	50.2	57.0	50.3		
TOTAL SHIPMENTS	892.2	970.0	978.0	959.2	3799.4	940.4	935.5	951.2	995.5	3822.6	968.8	1019.8	1025.4		
ENDING STOCK	328.1	310.3	299.4	292.5		317.1	305.3	297.4	306.6		295.4	290.3	279.1		
DOMESTIC SHIPMENTS	837.4	910.6	912.5	898.7	3559.2	889.5	880.6	909.2	942.7	3622.0	918.6	962.8	975.1		
IMPORTS -TEXTURED YARN [b]	16.2	16.2	22.7	17.8	72.9	17.9	19.5	20.4	24.1	81.9	19.3	15.1	17.2		
-OTHER YARN [b]	11.9	12.0	9.3	8.4	41.6	12.3	13.9	14.7	14.0	54.9	13.3	12.4	11.9		
-MONOFILAMENTS	0.6	0.6	0.5	0.4	2.1	0.8	0.6	0.5	0.8	2.7	0.8	0.9	1.0		
TOTAL IMPORTS	28.7	28.8	32.5	26.6	116.6	31.0	34.0	35.6	38.9	139.5	33.4	28.4	30.1		
TOTAL AVAILABLE	866.1	939.4	945.0	925.3	3675.8	920.5	914.6	944.8	981.6	3761.5	952.0	991.2	1005.2		
						TEXTILE GLASS FIBER									
TOTAL SHIPMENTS	317.9	325.6	318.8	297.3	1259.6	330.6	352.6	333.9	322.2	1339.3	366.1	392.5	383.3		
IMPORTS	7.5	9.4	8.4	9.4	34.7	7.9	6.0	4.4	5.4	23.7	4.9	5.6	11.3		

FOORNOTES FOR TABLE ABOVE & OPPOSITE:

NA No longer available.

"Imports" are imports for consumption, as reported by the U.S. Census Bureau.

a. Also include film fiber as well as spunbonded polypropylene.

b. Includes singles and plied.

c. These figures are composites of the nylon, acrylic+modacrylic and polyester staple imports, i.e., Commodity Numbers 309.4331, .4351, .4336 & .4366.

d. Includes both rayon & acetate yarn.

e. These figures are composites of olefin and other staple imports, i.e., Commodity Numbers 309.4371, .4341 & .4390.

f. 1987 data exclude Vinyon.

TABLE 9:
QUARTERLY MAN-MADE FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1985					1986					1987				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
							STAPLE+TOW								
RAYON															
PRODUCTION	**85.6**	**85.8**	**87.2**	**94.1**	**352.7**	**95.1**	**99.7**	**103.4**	**105.5**	**403.7**	**101.3**	**100.5**	**103.6**		
SHIPMENTS - DOMESTIC	73.8	76.6	82.9	90.4	323.7	91.6	92.0	95.1	94.3	373.0	91.8	91.0	97.9		
- EXPORT	7.9	13.5	10.0	3.6	35.0	6.3	6.9	7.3	10.3	30.8	8.1	8.2	12.6		
TOTAL SHIPMENTS	**81.7**	**90.1**	**92.9**	**94.0**	**358.7**	**97.9**	**98.9**	**102.4**	**104.6**	**403.8**	**99.9**	**99.2**	**110.5**		
ENDING STOCK	**32.4**	**28.1**	**22.4**	**22.5**		**19.7**	**20.5**	**21.5**	**22.4**		**23.8**	**25.1**	**18.2**		
DOMESTIC SHIPMENTS	73.8	76.6	82.9	90.4	323.7	91.6	92.0	95.1	94.3	373.0	91.8	91.0	97.9		
IMPORTS FOR CONSUMPTION															
STAPLE	3.8	2.2	2.4	2.9	11.3	3.9	3.6	4.6	4.3	16.4	3.9	3.8	2.6		
GROUPED FILAMENTS	0.3	0.3	0.3	0.2	1.1	0.3	0.3	0.3	0.1	1.0	0.2	0.1	0.4		
TOTAL IMPORTS	4.1	2.5	2.7	3.1	12.4	4.2	3.9	4.9	4.4	17.4	4.1	3.9	3.0		
TOTAL AVAILABLE	**77.9**	**79.1**	**85.6**	**93.5**	**336.1**	**95.8**	**95.9**	**100.0**	**98.7**	**390.4**	**95.9**	**94.9**	**100.9**		
NYLON															
PRODUCTION	**191.6**	**200.8**	**215.6**	**219.7**	**827.7**	**220.5**	**207.4**	**236.1**	**244.3**	**908.3**	**247.4**	**261.0**	**252.8**		
SHIPMENTS-DOMESTIC	192.8	202.7	212.9	221.9	830.3	195.2	203.2	254.3	242.2	894.9	246.2	253.2	246.2		
-EXPORT	3.3	3.1	3.2	3.7	13.3	3.9	2.9	3.0	3.5	13.3	5.3	5.0	3.7		
TOTAL SHIPMENTS	**196.1**	**205.8**	**216.1**	**225.6**	**843.6**	**199.1**	**206.1**	**257.3**	**245.7**	**908.2**	**251.5**	**258.2**	**249.9**		
ENDING STOCK	**74.1**	**69.1**	**68.6**	**62.7**		**84.1**	**85.4**	**64.2**	**62.8**		**58.7**	**61.5**	**64.4**		
IMPORTS	8.7	8.0	12.5	9.3	38.5	11.9	10.6	14.9	14.6	52.0	14.8	8.7	8.6		
TOTAL AVAILABLE	**201.5**	**210.7**	**225.4**	**231.2**	**868.8**	**207.1**	**213.8**	**269.2**	**256.8**	**946.9**	**261.0**	**261.9**	**254.8**		
ACRYLIC+MODACRYLIC															
PRODUCTION	**163.0**	**158.5**	**152.1**	**157.2**	**630.8**	**149.0**	**151.1**	**158.0**	**157.8**	**615.9**	**155.7**	**159.0**	**135.3**		
SHIPMENTS-DOMESTIC	105.3	119.7	118.6	115.1	458.7	123.1	143.7	138.7	125.7	531.2	139.4	131.6	112.8		
-EXPORT	59.0	42.4	46.7	37.0	185.1	27.1	19.2	17.8	18.8	82.9	14.7	17.0	32.0		
TOTAL SHIPMENTS	**164.3**	**162.1**	**165.3**	**152.1**	**643.8**	**150.2**	**162.9**	**156.5**	**144.5**	**614.1**	**154.1**	**148.6**	**144.8**		
ENDING STOCK	**76.1**	**72.5**	**59.3**	**64.4**		**63.2**	**51.4**	**52.9**	**66.2**		**67.8**	**78.2**	**68.7**		
IMPORTS	3.4	3.6	5.9	4.7	17.6	3.2	4.0	5.3	4.9	17.4	3.3	4.1	4.6		
TOTAL AVAILABLE	**108.7**	**123.3**	**124.5**	**119.8**	**476.3**	**126.3**	**147.7**	**144.0**	**130.6**	**548.6**	**142.7**	**135.7**	**117.4**		
OLEFIN+VINYON [f]															
PRODUCTION	**69.1**	**72.7**	**75.1**	**77.8**	**294.7**	**82.4**	**82.3**	**84.7**	**85.9**	**335.3**	**85.5**	**92.3**	**92.1**		
SHIPMENTS-DOMESTIC	67.2	71.9	70.8	69.8	279.7	73.9	82.6	76.4	79.8	312.7	81.1	85.7	86.1		
-EXPORT	1.0	2.0	3.2	2.3	8.5	4.2	4.8	4.8	5.0	18.8	6.9	5.7	5.4		
TOTAL SHIPMENTS	**68.2**	**73.9**	**74.0**	**72.1**	**288.2**	**78.1**	**87.4**	**81.2**	**84.8**	**331.5**	**88.0**	**91.4**	**91.5**		
ENDING STOCK	**24.1**	**22.9**	**24.0**	**29.7**		**34.0**	**28.9**	**32.4**	**33.5**		**31.0**	**31.9**	**32.5**		
POLYESTER															
PRODUCTION	**520.7**	**512.2**	**468.9**	**518.3**	**2020.1**	**520.8**	**538.7**	**522.1**	**550.7**	**2132.3**	**581.0**	**596.2**	**578.4**		
SHIPMENTS-DOMESTIC	456.3	460.2	462.4	493.8	1872.7	499.1	499.9	496.3	503.3	1998.6	534.4	549.9	537.5		
-EXPORT	51.0	63.2	29.1	22.6	165.9	25.7	25.0	31.6	42.5	124.8	48.2	47.0	38.3		
TOTAL SHIPMENTS	**507.3**	**523.4**	**491.5**	**516.4**	**2038.6**	**524.8**	**524.9**	**527.9**	**545.8**	**2123.4**	**582.6**	**596.9**	**575.8**		
ENDING STOCK	**186.9**	**175.7**	**153.1**	**155.0**		**151.0**	**164.8**	**159.0**	**163.9**		**162.3**	**161.6**	**164.2**		
IMPORTS	5.5	7.7	7.3	6.3	26.8	9.3	8.9	8.7	13.9	40.8	15.5	17.4	23.4		
TOTAL AVAILABLE	**461.8**	**467.9**	**469.7**	**500.1**	**1899.5**	**508.4**	**508.8**	**505.0**	**517.2**	**2039.4**	**549.9**	**567.3**	**560.9**		
TOTAL NONCELLULOSIC															
PRODUCTION	**944.4**	**944.2**	**911.7**	**973.0**	**3773.3**	**972.7**	**979.5**	**1000.9**	**1038.7**	**3991.8**	**1069.6**	**1108.5**	**1058.6**		
SHIPMENTS-DOMESTIC	821.6	854.5	864.7	900.6	3441.4	891.3	929.4	965.7	951.0	3737.4	1001.1	1020.4	982.6		
-EXPORT	114.3	110.7	82.2	65.6	372.8	60.9	51.9	57.2	69.8	239.8	75.1	74.7	79.4		
TOTAL SHIPMENTS	**935.9**	**965.2**	**946.9**	**966.2**	**3814.2**	**952.2**	**981.3**	**1022.9**	**1020.8**	**3977.2**	**1076.2**	**1095.1**	**1062.0**		
ENDING STOCK	**361.2**	**340.2**	**305.0**	**311.8**		**332.3**	**330.5**	**308.5**	**326.4**		**319.8**	**333.2**	**329.8**		
DOMESTIC SHIPMENTS	821.6	854.5	864.7	900.6	3441.4	891.3	929.4	965.7	951.0	3737.4	1001.1	1020.4	982.6		
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE [c]	17.6	19.3	25.7	20.3	82.9	24.4	23.5	28.9	33.4	110.2	33.6	30.2	36.6		
OTHER N.C. STAPLE [e]	7.1	7.3	8.7	8.2	31.3	7.2	4.4	2.5	2.0	16.1	2.8	3.6	3.7		
GROUPED FILAMENTS	9.5	11.8	11.9	12.3	45.5	14.4	15.0	14.7	12.4	56.5	12.4	12.4	12.1		
TOTAL IMPORTS	34.2	38.4	46.3	40.8	159.7	46.0	42.9	46.1	47.8	182.8	48.8	46.2	52.4		
TOTAL AVAILABLE	**855.8**	**892.9**	**911.0**	**941.4**	**3601.1**	**937.3**	**972.3**	**1011.8**	**998.8**	**3920.2**	**1049.9**	**1066.6**	**1035.0**		

See footnotes on opposite page.

TABLE 10:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

	1987												YEAR TO DATE[a]	
ITEM	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	**1987**	**1986**
	MAN-MADE FIBER TOTAL SHIPMENTS[b,c]													
CELLULOSIC														
YARN	14.6	13.7	15.9	16.5	16.1	16.9	14.6	14.8	16.9	17.1			157.1	178.9
RAYON STAPLE	34.1	29.7	36.1	33.2	31.6	34.4	33.6	37.0	39.9	36.5			346.1	334.8
TOTAL CELLULOSIC	48.7	43.4	52.0	49.7	47.7	51.3	48.2	51.8	56.8	53.6			503.2	513.7
NONCELLULOSIC														
YARN														
NYLON[d] - INDUSTRIAL[e]	31.0	32.8	30.6	29.5	35.7	30.0	30.6	31.2	29.6	31.7			312.7	275.4
- CARPET	75.1	77.6	79.9	76.9	86.2	78.5	80.4	82.5	89.1	76.1			802.3	753.0
- TEXTILE[g]	30.5	30.4	33.5	32.1	32.4	31.4	31.1	31.5	33.5	30.1			316.5	302.7
POLYESTER - INDUSTRIAL[e]	26.6	27.6	29.4	27.7	28.0	26.9	26.1	30.0	31.1	30.3			283.7	260.9
- TEXTILE[g]	63.3	64.0	72.3	75.7	73.6	71.7	72.3	65.5	71.6	70.9			700.9	712.9
OLEFIN[f]	92.3	87.6	84.3	88.9	91.4	103.2	83.2	99.1	107.0	96.0			933.0	865.6
TOTAL YARN	318.8	320.0	330.0	330.8	347.3	341.7	323.7	339.8	361.9	335.1			3349.1	3170.5
STAPLE														
NYLON	84.1	81.2	86.2	88.7	91.1	78.4	81.6	84.2	84.1	88.4			848.0	753.9
ACRYLIC+MODACRYLIC	49.2	50.7	54.2	51.2	52.3	45.1	47.5	50.0	47.3	51.4			498.9	523.3
POLYESTER	184.8	192.2	205.6	195.1	193.4	208.4	181.6	186.5	207.7	205.3			1960.6	1766.1
OLEFIN+VINYON[h]	28.2	27.9	31.9	31.1	30.0	30.3	26.9	32.0	32.6	31.3			302.2	276.5
TOTAL STAPLE	346.3	352.0	377.9	366.1	366.8	362.2	337.6	352.7	371.7	376.4			3609.7	3319.8
TOTAL NONCELLULOSIC	665.1	672.0	707.9	696.9	714.1	703.9	661.3	692.5	733.6	711.5			6958.8	6490.3
TOTAL MAN-MADE FIBER	713.8	715.4	759.9	746.6	761.8	755.2	709.5	744.3	790.4	765.1			7462.0	7004.0
	MAN-MADE FIBER END-OF-MONTH STOCK													
CELLULOSIC														
YARN	17.9	18.2	16.8	15.2	14.7	14.0	14.0	13.3	12.9	12.0			12.0	14.7
RAYON STAPLE	24.3	26.1	23.8	24.7	25.9	25.1	25.0	21.2	18.2	16.3			16.3	23.0
TOTAL CELLULOSIC	42.2	44.3	40.6	39.9	40.6	39.1	39.0	34.5	31.1	28.3			28.3	37.7
NONCELLULOSIC														
YARN														
NYLON[d] - INDUSTRIAL[e]	29.2	24.9	26.7	29.0	27.0	25.8	26.5	24.9	22.8	22.2			22.2	30.4
- CARPET	56.6	55.5	52.3	52.4	48.3	47.7	52.7	49.3	45.2	47.6			47.6	43.1
- TEXTILE[g]	49.6	49.4	46.5	47.2	47.6	46.8	48.6	47.0	45.7	46.4			46.4	45.6
POLYESTER - INDUSTRIAL[e]	30.6	30.0	27.8	29.0	28.5	29.4	31.6	28.1	25.2	23.5			23.5	29.8
- TEXTILE[g]	85.6	88.8	87.6	83.2	80.0	85.7	85.6	85.0	87.2	86.0			86.0	82.6
OLEFIN[f]	54.7	55.6	54.5	56.3	56.0	54.9	57.0	55.7	53.0	54.1			54.1	60.3
TOTAL YARN	306.3	304.2	295.4	297.1	287.4	290.3	302.0	290.0	279.1	279.8			279.8	291.8
STAPLE														
NYLON	59.3	53.8	58.7	57.7	56.4	61.5	66.9	61.6	64.4	61.7			61.7	62.7
ACRYLIC+MODACRYLIC	68.2	67.9	67.8	70.1	71.6	78.2	73.9	70.0	68.7	63.8			63.8	52.1
POLYESTER	178.0	169.8	162.3	162.4	171.7	161.6	182.1	180.6	164.2	166.5			166.5	150.4
OLEFIN+VINYON[h]	33.3	32.6	31.0	30.3	30.8	31.9	34.5	32.9	32.5	32.6			32.6	29.8
TOTAL STAPLE	338.8	324.1	319.8	320.5	330.5	333.2	357.4	345.1	329.8	324.6			324.6	295.0
TOTAL NONCELLULOSIC	645.1	628.3	615.2	617.6	617.9	623.5	659.4	635.1	608.9	604.4			604.4	586.8
TOTAL MAN-MADE FIBER	687.3	672.6	655.8	657.5	658.5	662.6	698.4	669.6	640.0	632.7			632.7	624.5
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	13.8	13.1	15.0	13.8	13.4	13.8	10.6	10.7					104.2	103.8
CARPET CLASS WOOL	0.8	0.8	1.2	1.3	1.3	0.8	1.2	1.5					8.9	6.7
TOTAL RAW WOOL	14.6	13.9	16.2	15.1	14.7	14.6	11.8	12.2					113.1	110.5
RAW COTTON	302.3	281.8	341.4	301.8	308.4	328.2	261.6	293.4	398.8				2817.7	2402.5

- a. "Year-to-date" totals for stock, are the latest month's figures.
- b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
- c. Producers' total domestic shipments plus export shipments.
- d. Data for nylon exclude Aramid.
- e. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
- f. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
- g. Low denier industrial nylon and polyester included with Textile.
- h. 1987 data exclude Vinyon.

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TEXTILE ORGANON

Volume 58, No. 12 ☐ December 1987

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Highlights

- Worldwide Natural Fiber Survey . . . begins on page 274.
- November 1987 Capacity Survey Analysis . . . begins on page 279.
- January - October 1987 Imports of Man-Made Fiber are up 6.4% . . . see page 284.
- January - October 1987 Exports of Man-Made Fiber are up 11.9% . . . see page 285.

SHIPMENTS:

In November, there were seasonal declines in fiber shipments from the previous month for several fibers, and for the total of all fibers. However, shipments of many fibers and the total of all fibers remained ahead when compared with November 1986 shipments, and for the year-to-date.

Total man-made fiber shipments in November 1987 were 714.8 million pounds, down 6.8% from October but 2.6% over November 1986, and ahead 6.2% for the year-to-date. Shipments of cellulosic fibers were down 0.6% from November 1986, while shipments of noncellulosic fibers were ahead 2.9%.

Polyester staple shipments at 199.4 million pounds were 14.9% ahead of November 1986. Olefin staple shipments at the 30.8 million pound level were ahead 10.4% from the previous November.

Nylon carpet yarn shipments in November 1987 were down to 65.3 million pounds, a level 12.7% below that of the previous November. Nylon staple shipments at 71.4 million pounds were down 8.0% for the same time period.

TABLE 1:
TOTAL U.S. MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

	1987		% CHG	1986	% CHG	YEAR TO DATE		% CHG YTD
ITEM	**NOV**	**OCT**	**10/87-11/87**	**NOV**	**11/86-11/87**	**1987**	**1986**	**1986-1987**
CELLULOSIC								
YARN	15.7	17.1	*-8.2*	15.2	*+3.3*	172.8	194.1	*-11.0*
RAYON STAPLE	32.8	36.5	*-10.1*	33.6	*-2.4*	378.9	368.4	*+2.9*
TOTAL CELLULOSIC	**48.5**	**53.6**	***-9.5***	**48.8**	***-0.6***	**551.7**	**562.5**	***-1.9***
NONCELLULOSIC								
YARN								
NYLON [a] - INDUSTRIAL	30.3	31.7	*-4.4*	27.1	*+11.8*	343.0	302.5	*+13.4*
- CARPET	65.3	78.1	*-16.4*	74.8	*-12.7*	869.6	827.8	*+5.0*
- TEXTILE [b]	31.2	30.1	*+3.7*	29.3	*+6.5*	347.7	332.0	*+4.7*
POLYESTER - INDUSTRIAL	27.1	30.3	*-10.6*	25.2	*+7.5*	310.0	286.1	*+8.4*
- TEXTILE [b]	72.4	70.9	*+2.1*	70.5	*+2.7*	774.1	783.4	*-1.2*
OLEFIN	94.9	96.0	*-1.1*	97.1	*-2.3*	1027.9	962.7	*+6.8*
TOTAL YARN	**321.2**	**337.1**	***-4.7***	**324.0**	***-1.0***	**3672.3**	**3494.5**	***+5.1***
STAPLE								
NYLON	71.4	88.4	*-19.2*	77.6	*-8.0*	919.4	831.5	*+10.6*
ACRYLIC+MODACRYLIC	43.5	51.4	*-15.4*	44.6	*-2.5*	542.4	567.9	*-4.5*
POLYESTER	199.4	205.3	*-2.9*	173.5	*+14.9*	2160.0	1939.6	*+11.4*
OLEFIN+VINYON [c]	30.8	31.3	*-1.6*	27.9	*+10.4*	333.0	304.4	*+9.4*
TOTAL STAPLE	**345.1**	**376.4**	***-8.3***	**323.6**	***+6.6***	**3954.8**	**3643.4**	***+8.5***
TOTAL NONCELLULOSIC	**666.3**	**713.5**	***-6.6***	**647.6**	***+2.9***	**7627.1**	**7137.9**	***+6.9***
TOTAL MAN-MADE FIBER	**714.8**	**767.1**	***-6.8***	**696.4**	***+2.6***	**8178.8**	**7700.4**	***+6.2***

a. Nylon excludes Aramid.
b. Includes low denier industrial nylon and polyester yarn.
c. 1987 data exclude Vinyon.

Textile Organon

A Monthly Review

DECEMBER 1987

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Editor
Rosemarie D. Frick

Publishing Headquarters:
Textile Economics Bureau, Inc.
101 Eisenhower Parkway
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DATAGRAM

WORLDWIDE PRODUCTION AND STOCKS OF RAW COTTON DECLINE

During the August 1, 1986-1987 season, worldwide production of raw cotton declined 11.2% to reach the 70.5 million bale level. In this time period, worldwide consumption of cotton exceeded production by 11.2 million bales, leading to a 25.7% reduction in stocks for the season.

In the same time period, raw cotton production in the United States fell 27.6% to 9.7 million bales. Consumption and exports increased a total of 5.7 million bales during the season, creating a 46.3 % drop in stocks, to 5.0 million bales. (See Table 2)

U.S. MAN-MADE FIBER CAPACITY GROWS 1.4%

The total U.S. man-made fiber producing capacity (excluding textile glass) grew 143 million pounds, or 1.4% since the November 1986 Survey, to reach 10,089 million pounds. The three biggest poundage gainers are nylon staple, olefin yarn and nylon carpet yarn. (See Table 9)

PRODUCING CAPACITY AND PRODUCTION OF U.S. APPAREL FIBERS AND WESTERN EUROPE MAN-MADE FIBERS ARE ALL DOWN SINCE 1979.

In the period 1979 through 1986, the producing capacity of five major apparel fibers in the U.S. was reduced 23.8% to 5,216 million pounds. In the same period, production of these fibers fell 22.4% to 4,581 million pounds. (See Graph 1, Page 279)

In the 1979 through 1986 time period, the producing capacity of all man-made fibers in Western Europe was reduced 15.0% to 8,116 million pounds. In this period, Western Europe fiber production fell 3.9% to 6,802 million pounds. (See Table 11)

STERLING GROUP PURCHASES TWO HOECHST CELANESE POLYESTER TEXTILE FIBER PLANTS

A new company, Fiber Industries Inc., has been set up by the Sterling Group, Inc. to purchase and operate the Hoechst Celanese polyester textile fiber plants at Darlington, S.C. and Fayetteville, N.C. The purchase also includes related marketing, administration and technical support, as well as the Fortrel trademark. Hoechst Celanese will retain all other polyester fiber plants, including the one at Salisbury, N.C. (Hoechst Celanese News Release)

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WORLDWIDE NATURAL FIBER SURVEY

For the season beginning August 1, 1986, worldwide production of raw cotton decreased to 70.5 million bales, representing a decline of 11.2% from the 79.4 million bales produced in 1985. The two largest producers, the People's Republic of China and the United States, each had a significant reduction and together account for three-fourths of the worldwide decline in production. During the 1986 season, worldwide consumption of cotton exceeded production by 11.2 million bales, creating a 25.7% reduction in stock.

In the United States, production during the 1986 season fell 27.6%, to reach the 9.7 million bale level. Consumption and exports increased a total of 5.7 million bales, leading to a 46.3% drop in stocks at the end of the season, to 5.0 million bales.

World production of raw wool (greasy basis) increased in 1986 to reach 6,682 million pounds, a gain of 1.4% over the 6,587 million pounds produced in the 1985 season.

In the 1986 season, Australia produced 1,927 million pounds of wool, or 4.3% above the 1,847 million pounds produced in the 1985 season. Raw wool output in New Zealand fell to 772 million pounds, representing a drop of 2.2% from the 789 million pounds produced in the previous season. Production in Eastern Europe, U.S.S.R., China, PRC, etc. increased to 1,783 million pounds, or 3.0% over the 1,731 million pounds produced in the 1985 season.

Raw wool output in the United States continued to fall, and reached 86 million pounds in the 1986 season, a level 4.4% below that of the previous year. The U.S. now represents 1.3% of worldwide raw wool production.

TABLE 2:
WORLDWIDE PRODUCTION, CONSUMPTION, EXPORT & CARRYOVER OF RAW COTTON

MILLION BALES[a] & *PERCENT*

SEASON BEGINNING AUGUST 1	PRODUCTION [b]						CONSUMPTION [c]						EXPORT [d]						CARRYOVER [e]					
	TOTAL		U.S.A.		FOREIGN		TOTAL		U.S.A.		FOREIGN		TOTAL		U.S.A.		FOREIGN		TOTAL		U.S.A		FOREIGN	
	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1954 f	38.4	*100*	14.0	*36*	24.4	*64*	37.2	*100*	9.3	*25*	27.9	*75*	12.4	*100*	4.0	*32*	8.4	*68*	18.1	*100*	7.6	*42*	10.5	*58*
1955-1959 f	43.7	*100*	12.9	*30*	30.8	*70*	44.2	*100*	8.7	*20*	35.5	*80*	14.7	*100*	5.1	*35*	9.6	*65*	22.4	*100*	12.0	*54*	10.4	*46*
1960-1964 f	49.2	*100*	14.9	*30*	34.3	*70*	47.2	*100*	8.7	*18*	38.5	*82*	16.6	*100*	4.9	*30*	11.7	*70*	23.5	*100*	12.3	*52*	11.2	*48*
1965-1969 f	52.7	*100*	10.6	*20*	42.1	*80*	54.0	*100*	8.8	*16*	45.2	*84*	17.4	*100*	3.6	*21*	13.8	*79*	27.0	*100*	11.3	*42*	15.7	*58*
1970-1974 f	63.2	*100*	11.9	*19*	51.3	*81*	59.2	*100*	7.5	*13*	51.7	*87*	18.9	*100*	4.5	*24*	14.4	*76*	23.0	*100*	4.3	*19*	18.7	*81*
1975-1979 f	60.4	*100*	11.9	*20*	48.5	*80*	62.5	*100*	6.7	*11*	55.8	*89*	19.5	*100*	5.8	*30*	13.7	*70*	25.0	*100*	4.3	*17*	20.7	*83*
1980-1984 f	69.6	*100*	9.9	*14*	59.7	*86*	68.1	*100*	5.6	*8*	62.5	*92*	19.9	*100*	6.1	*31*	13.8	*69*	23.7	*100*	4.6	*19*	19.1	*81*
1976	57.6	*100*	10.7	*19*	46.9	*81*	60.8	*100*	6.7	*11*	54.1	*89*	17.5	*100*	4.8	*27*	12.7	*73*	24.7	*100*	3.7	*15*	21.0	*85*
1977	63.8	*100*	14.4	*23*	49.4	*77*	60.7	*100*	6.5	*11*	54.2	*89*	19.0	*100*	5.5	*29*	13.5	*71*	21.4	*100*	3.0	*14*	18.4	*86*
1978	59.5	*100*	10.9	*18*	48.6	*82*	63.5	*100*	6.4	*10*	57.1	*90*	19.6	*100*	6.2	*32*	13.4	*68*	26.2	*100*	5.3	*20*	20.9	*80*
1979	64.9	*100*	14.6	*23*	50.3	*77*	65.6	*100*	6.5	*10*	59.1	*90*	23.3	*100*	9.2	*39*	14.1	*61*	22.7	*100*	4.0	*18*	18.7	*82*
1980	64.5	*100*	11.1	*17*	53.4	*83*	65.9	*100*	5.9	*9*	60.0	*91*	20.1	*100*	5.9	*29*	14.2	*71*	22.6	*100*	3.0	*13*	19.6	*87*
1981	70.7	*100*	15.6	*22*	55.1	*78*	65.8	*100*	5.3	*8*	60.5	*92*	21.1	*100*	6.6	*31*	14.5	*69*	20.6	*100*	2.7	*13*	17.9	*87*
1982	68.1	*100*	12.0	*18*	56.1	*82*	67.9	*100*	5.5	*8*	62.4	*92*	18.4	*100*	5.2	*28*	13.2	*72*	24.9	*100*	6.6	*27*	18.3	*73*
1983	66.8	*100*	7.8	*12*	59.0	*88*	69.6	*100*	5.9	*8*	63.7	*92*	19.7	*100*	6.8	*35*	12.9	*65*	26.6	*100*	7.9	*30*	18.7	*70*
1984	87.8	*100*	13.0	*15*	74.8	*85*	71.3	*100*	5.5	*8*	65.8	*92*	20.4	*100*	6.2	*30*	14.2	*70*	24.6	*100*	2.8	*11*	21.8	*89*
1985	79.4	*100*	13.4	*17*	66.0	*83*	77.0	*100*	6.4	*8*	70.6	*92*	20.5	*100*	2.0	*10*	18.5	*90*	42.0	*100*	4.1	*10*	37.9	*90*
1986 g	70.5	*100*	9.7	*14*	60.8	*86*	81.7	*100*	7.4	*9*	74.3	*91*	25.3	*100*	6.7	*26*	18.6	*74*	45.2	*100*	9.3	*21*	35.9	*79*
1987 g	76.3	*100*	12.8	*17*	63.5	*83*	81.7	*100*	7.5	*9*	74.2	*91*	23.1	*100*	7.8	*34*	15.3	*66*	33.6	*100*	5.0	*15*	28.6	*85*

SOURCE: International Cotton Advisory Committee.

For earlier years' data, see the October 1960 and 1969 ***Textile Organon*** issues, pages 167 & 176.

a. Bales of 478 pounds, except running bales for the United States through 1976.

b. Means actual ginnings or pressings during the August-July season. In some countries, unpressed cotton and estimates of production for household consumption and for delivery to mills are included. U.S. production also includes the city crop, etc. Note that U.S. production shown in the table on page 275 includes only the ginnings within the crop year shown.

c. Includes raw cotton consumed in spinning mills and other factories plus estimates of household consumption.

d. Means the export of domestically produced cotton.

e. Includes mill stocks, port stocks and stocks in transit, etc. U.S.A. means the carryover of U.S. cotton in the world regardless of where located; FOREIGN means the carryover of foreign cotton in the world regardless of location.

f. Five-year averages.

g. The 1986 & 1987 data are preliminary or estimated.

TABLE 3:
WORLDWIDE RAW COTTON PRODUCTION BY PRODUCING COUNTRIES [a]
THOUSAND BALES & *PERCENT*

SEASON BEGINNING AUGUST 1	WORLD TOTAL		NORTH & SOUTH AMERICA												PRC & E. EUROPE					
			BRAZIL		MEXICO		U.S.A.		OTHER N.A.[b]		OTHER S.A.[c]		TOTAL		CHINA[d]		U.S.S.R.[e]		TOTAL	
	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1954	38403	*100*	1666	*4.3*	1340	*3.5*	14046	*36.6*	179	*0.5*	1170	*3.0*	18401	*47.9*	4480	*11.6*	5945	*15.5*	10425	*27.1*
1955-1959	43718	*100*	1490	*3.4*	2050	*4.7*	12945	*29.6*	422	*1.0*	1325	*3.0*	18232	*41.7*	7060	*16.2*	6925	*15.8*	13985	*32.0*
1960-1964	49171	*100*	2220	*4.5*	2191	*4.5*	14881	*30.3*	931	*1.9*	1643	*3.3*	21866	*44.5*	5580	*11.4*	7533	*15.3*	13113	*26.7*
1965-1969	52716	*100*	2679	*5.1*	2211	*4.2*	10595	*20.1*	1049	*2.0*	1576	*3.0*	18110	*34.4*	8240	*15.6*	9277	*17.6*	17517	*33.2*
1970-1974	61175	*100*	2756	*4.5*	1733	*2.8*	11851	*19.4*	1279	*2.1*	1871	*3.1*	19490	*31.9*	10480	*17.1*	11344	*18.6*	21824	*35.7*
1975-1979	60396	*100*	2327	*3.8*	1334	*2.2*	11876	*19.7*	1469	*2.4*	2222	*3.7*	19228	*31.8*	10070	*16.7*	12363	*20.5*	22433	*37.2*
1980-1984	69550	*100*	3157	*4.5*	1210	*1.8*	9894	*14.3*	1044	*1.5*	1981	*2.8*	17286	*24.9*	18521	*26.6*	12237	*17.6*	30758	*44.2*
1976	57569	*100*	2510	*4.4*	1045	*1.8*	10650	*18.5*	1562	*2.7*	2302	*4.0*	18069	*31.4*	10000	*17.4*	12125	*21.0*	22125	*38.4*
1977	63836	*100*	2116	*3.3*	1620	*2.5*	14389	*22.6*	1674	*2.6*	2646	*4.1*	22445	*35.1*	9470	*14.8*	12478	*19.5*	21948	*34.3*
1978	59479	*100*	2519	*4.2*	1563	*2.6*	10856	*18.3*	1657	*2.8*	2105	*3.5*	18700	*31.4*	9968	*16.7*	11885	*20.0*	21853	*36.7*
1979	64904	*100*	2629	*4.1*	1509	*2.3*	14629	*22.5*	1141	*1.8*	2212	*3.4*	22120	*34.1*	10147	*15.6*	12470	*19.2*	22617	*34.8*
1980	64565	*100*	2825	*4.4*	1620	*2.5*	11122	*17.2*	1191	*1.8*	1991	*3.1*	18749	*29.0*	12439	*19.3*	13185	*20.4*	25624	*39.7*
1981	70739	*100*	2939	*4.2*	1440	*2.0*	15641	*22.2*	917	*1.3*	2032	*2.9*	22969	*32.6*	13779	*19.4*	13056	*18.5*	26835	*37.9*
1982	68095	*100*	2985	*4.4*	840	*1.2*	11963	*17.6*	806	*1.2*	1259	*1.8*	17853	*26.2*	16695	*24.5*	12325	*18.1*	29020	*42.6*
1983	66847	*100*	2554	*3.9*	1038	*1.6*	7771	*11.6*	810	*1.2*	2026	*3.0*	14199	*21.3*	21508	*32.2*	11300	*16.9*	32808	*49.1*
1984	87797	*100*	4455	*5.1*	1110	*1.3*	12982	*14.8*	774	*0.9*	2597	*3.0*	21918	*25.1*	28966	*33.0*	11576	*13.1*	40542	*46.1*
1985	79394	*100*	3812	*4.8*	1010	*1.3*	13432	*16.9*	580	*0.7*	2209	*2.8*	21043	*26.5*	19288	*24.3*	12439	*15.7*	31727	*40.0*
1986 f	70501	*100*	2900	*4.1*	715	*1.0*	9731	*13.8*	439	*0.6*	2012	*2.9*	15797	*22.4*	16519	*23.4*	12156	*17.3*	28675	*40.7*
1987 f	76333	*100*	3400	*4.4*	1083	*1.4*	12846	*16.8*	575	*0.8*	2496	*3.3*	20400	*26.7*	17755	*23.3*	11555	*15.1*	29310	*38.4*

SEASON BEGINNING AUGUST 1	WEST EUROPE TOTAL[g]		ASIA & OCEANIA										AFRICA							
			INDIA		PAKISTAN		TURKEY		OTHER[h]		TOTAL		EGYPT		SUDAN		OTHER[i]		TOTAL	
	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1954	236	*0.6*	3432	*8.9*	1330	*3.5*	642	*1.7*	727	*1.9*	6131	*16.0*	1713	*4.5*	387	*1.0*	1110	*2.9*	3210	*8.4*
1955-1959	537	*1.2*	4012	*9.2*	1381	*3.2*	763	*1.7*	1129	*2.6*	7285	*16.7*	1815	*4.2*	502	*1.1*	1362	*3.1*	3679	*8.4*
1960-1964	838	*1.7*	4769	*9.7*	1663	*3.4*	1118	*2.3*	1644	*3.3*	9194	*18.7*	2045	*4.1*	691	*1.4*	1424	*2.9*	4160	*8.4*
1965-1969	778	*1.5*	4850	*9.2*	2268	*4.3*	1787	*3.4*	2065	*3.9*	10970	*20.8*	2205	*4.2*	946	*1.8*	2190	*4.1*	5341	*10.1*
1970-1974	809	*1.3*	5410	*8.8*	2993	*4.9*	2379	*3.9*	2363	*3.9*	13145	*21.5*	2268	*3.7*	1056	*1.7*	2583	*4.2*	5907	*9.6*
1975-1979	803	*1.3*	5700	*9.4*	2536	*4.2*	2291	*3.8*	2381	*4.0*	12908	*21.4*	1936	*3.2*	663	*1.1*	2425	*4.0*	5024	*8.3*
1980-1984	823	*1.2*	6618	*9.5*	3479	*5.0*	2367	*3.4*	2750	*4.0*	15214	*21.9*	2101	*3.0*	793	*1.1*	2575	*3.7*	5469	*7.8*
1976	733	*1.3*	4950	*8.6*	2006	*3.5*	2190	*3.8*	2401	*4.1*	11547	*20.0*	1828	*3.2*	735	*1.3*	2532	*4.4*	5095	*8.9*
1977	924	*1.4*	5656	*8.9*	2640	*4.2*	2639	*4.1*	2534	*4.0*	13469	*21.2*	1832	*2.9*	911	*1.5*	2307	*3.6*	5050	*8.0*
1978	851	*1.4*	6191	*10.4*	2174	*3.7*	2191	*3.7*	2379	*4.0*	12935	*21.8*	2014	*3.4*	637	*1.1*	2489	*4.2*	5140	*8.7*
1979	656	*1.0*	6260	*9.6*	3343	*5.1*	2191	*3.4*	2369	*3.7*	14163	*21.8*	2221	*3.4*	523	*0.9*	2604	*4.0*	5348	*8.3*
1980	821	*1.3*	6256	*9.7*	3279	*5.1*	2290	*3.5*	2266	*3.5*	14091	*21.8*	2428	*3.8*	441	*0.7*	2411	*3.7*	5280	*8.2*
1981	881	*1.2*	6559	*9.2*	3436	*4.9*	2244	*3.2*	2639	*3.7*	14878	*21.0*	2289	*3.2*	706	*1.0*	2181	*3.1*	5176	*7.3*
1982	718	*1.1*	6481	*9.5*	3780	*5.6*	2241	*3.3*	2592	*3.8*	15094	*22.2*	2096	*3.1*	915	*1.3*	2399	*3.5*	5410	*7.9*
1983	783	*1.1*	5870	*8.8*	2269	*3.4*	2398	*3.6*	2969	*4.4*	13506	*20.2*	1859	*2.8*	1003	*1.5*	2689	*4.0*	5551	*8.3*
1984	911	*1.0*	7925	*9.0*	4630	*5.3*	2664	*3.1*	3285	*3.7*	18504	*21.1*	1833	*2.1*	902	*1.0*	3187	*3.6*	5922	*6.7*
1985	1103	*1.3*	8355	*10.5*	5585	*7.0*	2370	*3.1*	3437	*4.3*	19747	*24.9*	1999	*2.5*	675	*0.9*	3100	*3.9*	5774	*7.3*
1986 f	1310	*1.9*	7418	*10.5*	5967	*8.5*	2300	*3.2*	2836	*4.0*	18521	*26.2*	1850	*2.6*	803	*1.1*	3545	*5.1*	6198	*8.8*
1987 f	1165	*1.5*	7600	*10.0*	6000	*7.9*	2400	*3.0*	2944	*3.9*	18944	*24.8*	1806	*2.4*	860	*1.2*	3848	*5.0*	6514	*8.6*

SOURCE: International Cotton Advisory Committee.

a. Foreign imports in equivalent 500-pound bales.
b. Baleages are principally from El Salvador, Guatemala & Nicaragua.
c. Baleages are principally from Argentina, Colombia, Paraguay & Peru.
d. Figures include nominal baleages for North Korea & Vietnam.
e. Figures include nominal baleages for Albania & Bulgaria.
f. Data are preliminary.
g. Baleages are principally from Greece & Spain.
h. Baleages are chiefly from Australia, Iran, Israel & Syria.
i. Baleages are principally from Angola, Chad, Mozambique, Nigeria, South Africa, Tanzania, Uganda, Zaire & Zimbabwe.

TABLE 4:
SUPPLY AND DISTRIBUTION OF DOMESTIC & FOREIGN RAW COTTON IN THE U.S. FOR THE SEASONS BEGINNING AUGUST 1ST

THOUSAND RUNNING BALES [a]

SUPPLY & DISTRIBUTION	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987 [b]
SUPPLY												
BEGINNING STOCK (AUGUST 1ST)	3594	2920	5326	3782	3027	2668	6632	7937	2777	4103	9349	5020
NET IMPORTS	38	5	4	5	28	26	23	12	14	33	5	10
U.S PRODUCTION (GINNINGS) [c]	10385	14077	10477	14390	10671	15646	} 11963	7771	12982	13432	9731	12846
CITY CROP (EST) [d]	10	+	+	+	131	266						
TOTAL SUPPLY	**14027**	**17002**	**15807**	**18177**	**13857**	**18606**	**18618**	**15720**	**15773**	**17568**	**19085**	**17876**
DISTRIBUTION												
NET EXPORTS	4565	5219	5850	8779	5611	6567	5200	6786	6215	1960	6680	7000
U.S. CONSUMPTION	6478	6236	6098	6261	5660	5264	5513	5926	5540	6399	7410	7500
ADJUSTMENT ITEM [e]	64	221	77	110	g	123	-22	200	0	0	0	0
ENDING STOCK (JULY 31ST)	2920	5326	3782	3027	2586	6632	7937	2777	4103	9349	5020	3500
DIVIDED AS-												
PRIVATELY OWNED	2604	4057	3145	2485	1934	NO LONGER AVAILABLE						
GOVERNMENT CONTROLLED [f]	316	1269	637	542	652							
TOTAL DISTRIBUTION	**14027**	**17002**	**15807**	**18177**	**13857**	**18586**	**18628**	**15689**	**15858**	**17708**	**19110**	**18000**

SOURCES: U.S. Census Bureau, Current Industrial Report M22-P; U.S. Department of Agriculture, *Cotton and Wool Outlook & Situation*; and the New York Cotton Exchange Service Bureau. For earlier years' data, see page 178 of the October 1967 ***Textile Organon*** and page 158 of the October 1978 issue.

a. Foreign imports in equivalent 500-pound bales.
b. Data estimated except for beginning stock.
c. Total ginnings within the crop year shown. Note that U.S. production given in the world tables on page 274 and 275 also includes city crop, etc.
d. Consists of rebaled samples and pickings from cotton damaged by fire and weather (partially estimated).
e. The Census Bureau's difference between supply and distribution resulting from baleage destroyed, cotton in transit, etc.
f. Loan and pooled cotton under CCC and earlier programs.
g. Included in city crop above.

TABLE 5:
U.S. CALENDAR YEAR IMPORTS & EXPORTS OF RAW COTTON & COTTON PRODUCTS

THOUSAND RUNNING BALES

PRODUCTS	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
IMPORTS											
RAW COTTON	38	5	4	5	28	26	20	12	24	33	5
COTTON YARN	54	27	63	25	39	48	59	85	110	112	215
MANUFACTURED GOODS [a]	1422	1368	1698	1529	1650	1956	1869	2280	2943	3282	3765
TOTAL	**1514**	**1400**	**1765**	**1559**	**1717**	**2030**	**1948**	**2377**	**3077**	**3427**	**3985**
EXPORTS											
RAW COTTON	3431	4448	6180	9229	5926	6567	5207	6786	6215	1960	6680
COTTON YARN	25	21	42	59	64	45	37	39	23	35	21
MANUFACTURED GOODS [a]	836	749	699	940	1037	720	528	418	406	409	552
TOTAL	**4292**	**5218**	**6921**	**10228**	**7027**	**7332**	**5772**	**7243**	**6644**	**2404**	**7253**
IMPORT BALANCE											
COTTON YARN+ MANUFACTURED GOODS [a]	+615	+625	+1020	+555	+588	+1239	+1363	+1908	+2624	+2950	+3407

SOURCES: U.S. Census Bureau and Department of Agriculture.

Raw cotton data are actual bales. Cotton yarn and manufactured goods data are the USDA raw cotton equivalents of these imports and exports.

a. Includes thread, twine, cordage, woven & knit cloth, all types of apparel, household items and other items such as industrial belts and belting, bags, braids and narrow fabrics.

TABLE 6:
U.S. COTTON ACREAGE & YIELD

SEASON BEGINNING AUGUST 1	HARVESTED	YIELD[a]	PRODUCTION
	THOUSAND ACRES	LBS	THOUSAND BALES[b]
1976	10914	465	10581
1977	13282	520	14389
1978	12400	420	10856
1979	12831	547	14629
1980	13215	404	11122
1981	13841	542	15641
1982	9730	590	11963
1983	7348	508	7771
1984	10380	600	12982
1985	10229	630	13432
1986[c]	8468	552	9731
1987[d]	10000	617	12846

SOURCE: International Cotton Advisory Committee.

a. Per harvested acre.

b. Production for the crop year in 480-pound net weight bales, regardless of when ginned. Does not include adjustment for city crop, etc.

c. Preliminary data.

d. International Cotton Advisory Committee estimate.

TABLE 7:
WORLDWIDE RAW WOOL PRODUCTION BY THE PRINCIPAL PRODUCING COUNTRIES[a]
MILLION POUNDS, GREASY BASIS & *PERCENT*

	AUSTRALIA		NEW ZEALAND		SOUTH AFRICA[c]		ARGENTINA		URUGUAY		UNITED STATES		UNITED KINGDOM		TURKEY		E. EUROPE & CHINA[d]		ALL OTHERS		WORLD TOTAL	
YEAR[b]	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%
1950 - 54 e	1202	27.6	419	9.6	272	6.3	401	9.2	193	4.4	289	6.6	96	2.2	76	1.7	667	15.3	745	17.1	4360	100
1955 - 59 e	1537	29.5	513	9.8	313	6.0	406	7.8	184	3.5	305	5.9	113	2.2	90	1.7	945	18.2	800	15.4	5206	100
1960 - 64 e	1713	30.2	607	10.7	304	5.4	413	7.3	187	3.3	295	5.2	127	2.2	98	1.7	1132	20.0	796	14.0	5672	100
1965 - 69 e	1836	30.7	717	12.0	310	5.2	454	7.6	181	3.0	222	3.7	123	2.1	100	1.7	1216	20.3	817	13.7	5976	100
1970 - 74 e	1764	30.6	681	11.8	246	4.2	410	7.1	138	2.4	169	2.9	106	1.8	110	1.9	1339	23.2	813	14.1	5776	100
1975 - 79 e	1567	26.5	707	12.0	230	3.9	385	6.5	145	2.5	113	1.9	106	1.8	122	2.1	1549	26.3	975	16.5	5899	100
1980 - 84 e	1615	25.3	816	12.8	238	3.7	358	5.6	173	2.7	106	1.7	116	1.8	135	2.1	1776	27.8	1060	16.5	6393	100
1976	1550	27.0	668	11.7	227	4.0	388	6.8	141	2.5	117	2.0	106	1.8	119	2.1	1435	25.0	983	17.1	5734	100
1977	1493	25.6	686	11.8	234	4.0	379	6.5	137	2.3	112	1.9	101	1.7	121	2.1	1583	27.1	992	17.0	5838	100
1978	1556	26.0	708	11.8	225	3.8	377	6.3	139	2.3	104	1.7	108	1.8	126	2.1	1620	27.1	1020	17.1	5983	100
1979	1564	25.4	787	12.8	227	3.7	377	6.1	154	2.5	106	1.7	106	1.7	130	2.1	1715	27.8	1002	16.2	6168	100
1980	1543	24.6	840	13.4	231	3.7	375	6.0	179	2.8	108	1.7	115	1.8	134	2.1	1735	27.6	1025	16.3	6285	100
1981	1581	24.9	800	12.6	242	3.8	370	5.8	168	2.7	112	1.8	112	1.8	137	2.2	1797	28.4	1016	16.0	6335	100
1982	1548	24.4	818	12.9	249	3.9	357	5.6	181	2.8	108	1.7	110	1.7	137	2.2	1777	27.9	1073	16.9	6358	100
1983	1605	25.0	802	12.5	238	3.7	357	5.6	181	2.8	104	1.6	119	1.9	137	2.1	1785	27.9	1087	16.9	6415	100
1984	1797	27.3	822	12.6	231	3.5	331	5.0	157	2.4	97	1.5	123	1.9	132	2.0	1784	27.1	1098	16.7	6572	100
1985	1847	28.0	789	12.0	216	3.3	335	5.1	192	3.0	90	1.4	128	1.9	134	2.0	1731	26.3	1125	17.0	6587	100
1986 f	1927	28.7	772	11.6	198	3.0	331	5.1	203	3.0	86	1.3	130	1.9	134	2.0	1783	26.7	1118	16.7	6682	100
1987 f	2011	29.2	783	11.4	203	3.0	340	5.1	207	3.0	88	1.3	139	2.0	134	2.0	1816	26.5	1131	16.5	6852	100

SOURCE: The Commonwealth Secretariat (London) ISSN 0142-1921

a. Apparel plus carpet class shorn wool, as well as pulled wool and wool on skins, mostly at the shorn equivalent.

b. Calendar years for Northern Hemisphere nations; season beginning July first or October first for Southern Hemisphere countries.

c. Excludes Lesotho and South West Africa.

d. Includes Albania, Bulgaria, China, P.R.C., Czechoslovakia, Germany, Dem. Rep., Hungary, Outer Mongolia & Tibet, Poland, Romania, U.S.S.R and Yugoslavia. For 1979 forward, these figures reflect significant revisions for China, P.R.C.

e. Five-year averages.

f. Preliminary estimates.

TABLE 8:
SUPPLY & DEMAND OF WOOL IN THE U.S.[a]
MILLION POUNDS, SCOURED BASIS

ITEM	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986
MILL CONSUMPTION OF WOOL											
APPAREL CLASS - DOMESTIC	92.3	87.0	91.2	92.1	77.4	142.2	119.7	151.8	153.3	123.0	154.3
- FOREIGN	38.4	34.2	37.3	32.4	47.3						
TOTAL APPAREL CLASS	**130.7**	**121.2**	**128.5**	**124.5**	**124.7**	**142.2**	**119.7**	**151.8**	**153.3**	**123.0**	**154.3**
CARPET CLASS- FOREIGN	**15.2**	**12.7**	**13.1**	**9.9**	**9.2**	**10.7**	**9.8**	**10.7**	**9.9**	**11.7**	**10.2**
SUBTOTAL ABOVE [b]	**145.9**	**133.9**	**141.6**	**134.4**	**133.9**	**152.9**	**129.5**	**162.5**	**163.2**	**134.7**	**164.5**
CONSUMED ON THE COTTON SYSTEM [c]	3.0	4.1	3.0	2.5	3.8	2.7	1.8	3.3	5.5	4.2	4.1
TOTAL RAW WOOL	**148.9**	**138.0**	**144.6**	**136.9**	**137.7**	**155.6**	**131.3**	**165.8**	**168.7**	**138.9**	**168.6**
REPROCESSED - CARPET	14.8	16.7	16.8	17.0	10.5	10.9	9.8	8.1	7.6	5.3	9.5
- OTHER											
REUSED - OTHER											
TOTAL ABOVE	**163.7**	**154.7**	**161.4**	**153.9**	**148.2**	**166.5**	**141.1**	**173.9**	**176.3**	**144.2**	**178.1**
WOOL CONTENT OF IMPORTS											
TOPS[d]	0.4	0.9	0.6	0.4	0.3	0.3	0.5	0.8	3.3	2.0	1.8
YARNS	5.4	5.8	5.5	3.8	3.9	4.7	7.2	7.6	13.2	12.1	11.8
CARPETS & RUGS[e]	14.1	14.8	13.9	13.9	16.9	18.1	19.6	34.8	51.1	59.2	60.6
WOVEN FABRICS	12.6	19.1	26.4	22.2	21.5	27.8	25.6	28.1	39.1	37.2	27.4
KNIT APPAREL	18.9	25.8	22.3	19.1	24.4	22.8	25.7	30.3	40.1	65.6	80.2
OTHER APPAREL	14.1	18.3	22.6	20.1	17.3	18.1	20.7	28.5	40.9	71.5	75.4
OTHER MANUFACTURES[f]	1.2	1.2	0.9	1.1	0.8	1.3	0.8	1.8	1.7	2.6	2.9
TOTAL IMPORTS [g]	**66.7**	**85.9**	**92.2**	**80.6**	**85.1**	**93.1**	**100.1**	**131.9**	**189.4**	**250.2**	**260.1**
WOOL CONTENT OF EXPORTS											
CARPET	2.3	2.0	0.7	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2
OTHER	11.6	9.5	10.9	13.7	23.5	11.6	10.6	9.6	8.6	15.7	13.9
TOTAL EXPORTS [g]	**13.9**	**11.5**	**11.6**	**14.0**	**23.8**	**11.8**	**10.8**	**9.8**	**8.8**	**15.8**	**14.1**
NET IMPORTS	**52.8**	**74.4**	**80.6**	**66.6**	**61.3**	**81.3**	**89.3**	**122.1**	**180.6**	**234.4**	**246.0**
TOTAL DISAPPEARANCE	**216.5**	**229.1**	**242.0**	**220.5**	**209.5**	**247.8**	**230.4**	**254.0**	**370.0**	**484.6**	**506.1**
SUPPLY & DEMAND IN CARPETS & RUGS											
CARPET WOOL CONSUMPTION	15.5	12.8	13.2	10.9	10.4	10.7	10.3	10.7	9.9	11.7	10.2
IMPORTS OF CARPETS	14.1	14.8	13.9	13.9	16.9	18.1	19.6	34.8	51.1	59.2	60.6
EXPORTS OF CARPETS	2.3	2.0	0.7	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.2
TOTAL	**27.3**	**25.6**	**26.4**	**24.5**	**27.0**	**28.6**	**29.7**	**45.3**	**60.8**	**70.8**	**70.6**
% IMPORTS OF TOTAL	*51 1/2*	*58*	*52 1/2*	*56 1/2*	*62 1/2*	*63 1/2*	*66*	*77*	*84*	*83 1/2*	*86*
SUPPLY & DEMAND IN ALL OTHER PRODUCTS											
OTHER WOOL CONSUMPTION	148.2	141.9	148.2	143.0	137.8	155.8	130.8	121.2	179.5	238.5	249.9
IMPORTS	52.6	71.1	78.3	66.7	68.2	75.0	80.5	97.1	138.3	191.0	199.5
EXPORTS	11.6	9.5	10.9	13.7	23.5	11.6	10.6	9.6	8.6	15.7	13.9
TOTAL	**189.2**	**203.5**	**215.6**	**196.0**	**182.5**	**219.2**	**200.7**	**208.7**	**309.2**	**413.8**	**435.5**
% IMPORTS OF TOTAL	*28*	*35*	*36 1/2*	*34*	*37 1/2*	*34 1/2*	*40*	*46 1/2*	*45*	*46*	*46*

SOURCE: U.S. Department of Agriculture, *Cotton and Wool Outlook & Situation.*

a. Calendar years.

b. Agrees with ***Textile Organon's*** Selected U.S. Monthly Fiber Data Table.

c. Raw wool consumed on the cotton spinning system.

d. Includes advanced wool.

e. Includes pile fabrics & manufactures, blankets, tapestry & upholstery press & billiard cloths, car robes, etc.

f. Includes knit fabrics in the piece and miscellaneous manufactures not elsewhere specified.

g. November 1987 ***Textile Organon*** page 259.

NOVEMBER 1987 CAPACITY SURVEY ANALYSIS

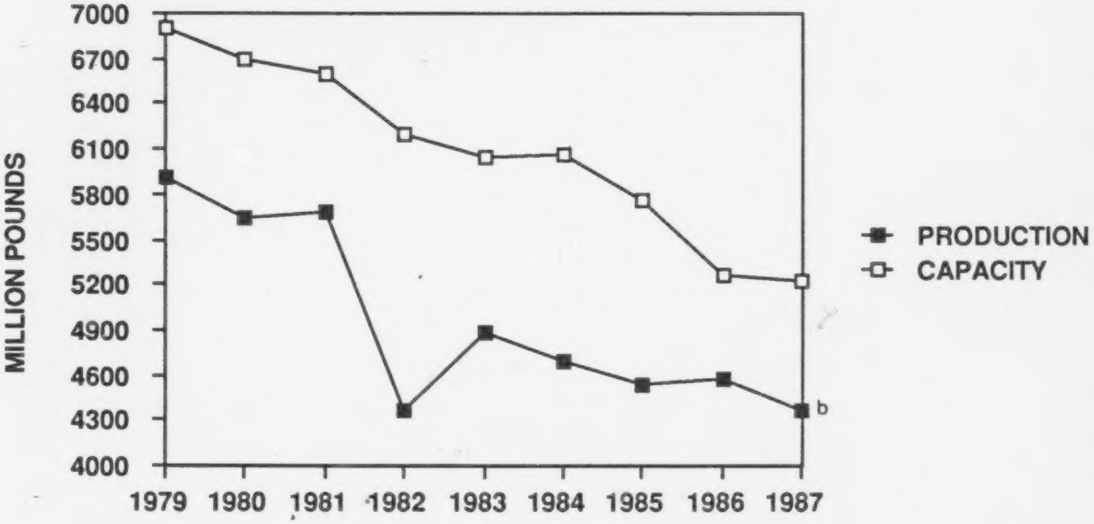
The total man-made fiber producing capacity (excluding textile glass) climbed to 10,089 million pounds, an increase of 1.4% from the 9,946 million pounds reported in the November 1986 Survey. The entire increase was in noncellulosic fibers, as producing capacity for cellulosic fibers remained unchanged. The total capacity for all fibers is currently 7.6% below the level reported in November 1979. (See Table 9)

Since November 1986, noncellulosic filament yarn capacity increased 12 million pounds to 4,587 million pounds. Within this category, nylon carpet yarn capacity increased 41 million pounds, olefin yarn capacity increased 56 million pounds and polyester textile yarn capacity fell 92 million pounds.

Producing capacity for noncellulosic staple+tow increased by 131 million pounds in the year, to reach 4,793 million pounds. Each of the four major staple fibers gained capacity, with nylon staple growing by 60 million pounds and polyester staple increasing 31 million pounds. (See Table 10)

Producing capacity and production of U.S. apparel fibers are all down since 1979. In the period 1979 through 1986, the producing capacity of five major apparel fibers in the U.S. was reduced 23.8% to 5,216 million pounds. In the same period, production of these fibers fell 22.4% to 4,581 million pounds.

GRAPH 1:
APPAREL FIBER PRODUCTION VS. CAPACITY [a]



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a. Data are based on textile nylon, textile polyester, polyester staple, acrylic+modacrylic and cellulosic yarn+staple. The figures include some production and capacity for polyester staple and acrylic carpet yarn, and industrial rayon.

b. 1987 production data include January-November only.

TABLE 9:
U.S. MAN-MADE FIBER PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS

	CELLULOSIC FIBERS							NONCELLULOSIC FIBERS [a]			GRAND TOTAL MAN-MADE FIBERS EXCLUDING TEXTILE GLASS			NON-ADD TEXTILE GLASS FIBER [d]
	FILAMENT YARN+MONOFIL			STAPLE+TOW										
PERIOD	RAYON	ACETATE [b]	TOTAL	RAYON	ACETATE [b]	TOTAL	TOTAL	YARN +MONO	STAPLE +TOW	TOTAL	YARN +MONO [c]	STAPLE +TOW	TOTAL	
ACTUAL ANNUAL PRODUCTION														
1976	68	287	355	475	11	486	841	3306	3320	6626	3661	3806	7467	676
1977	71	282	353	527	8	535	888	3674	3654	7328	4027	4189	8216	787
1978	62	301	363	535	7	542	905	3830	3953	7783	4193	4495	8688	923
1979	57	317	374	549	7	556	930	4155	4282	8437	4529	4838	9367	1014
1980	47	309	356	443	7	450	806	3744	4148	7892	4100	4598	8698	867
1981	48	257	305	461	4	465	770	3815	4191	8006	4120	4656	8776	1041
1982	33	195	228	355	1	356	584	3057	3403	6460	3285	3759	7044	899
1983	36	228	264	375	1	376	640	3568	3970	7538	3832	4346	8178	1169
1984	41	198	239	389	+	389	628	3525	3947	7472	3764	4336	8100	1394
1985			205 g			353 g	558	3790	3773	7563	3995	4126	8121	NA
1986			215 g			404 g	619	3836	3992	7828	4051	4396	8447	NA
ACTUAL & PROJECTED CAPACITY, ANNUAL RATE, AS OF -														
NOV 1976 e	85	399	484	691	18	709	1193	4878	4254	9132	5362	4963	10325	893
NOV 1977 e	85	315	400	655	8	663	1063	4974	4394	9368	5374	5057	10431	1002
NOV 1978 e	83	330	413	665	8	673	1086	5000	4571	9571	5413	5244	10657	1118
NOV 1979 e	75	355	430	671	8	679	1109	5126	4678	9804	5556	5357	10913	1305
NOV 1980 e	63	324	387	514	8	522	909	4933	4714	9647	5320	5236	10556	1473
NOV 1981 e	52	332	384	509	5	514	898	4766	4950	9716	5150	5464	10614	1561
NOV 1982 e	63	318	381	510	4	514	895	4583	4781	9364	4964	5295	10259	1718
NOV 1983 e	63	268	331	510	4	514	845	4477	4827	9304	4808	5341	10149	1618
NOV 1984 e	63	268	331	510	4	514	845	4509	4981	9490	4840	5495	10335	1743
NOV 1985 e			269 g	510	5	515	784	4698	4890	9588	4967	5405	10372	1769
NOV 1986 e			244 g			465 g	709	4575	4662	9237	4819	5127	9946	1763
NOV 1987 e			244 g			465 g	709	4587	4793	9380	4831	5258	10089	1642
MAY 1988 f			244 g			465 g	709	4676	4813	9489	4920	5278	10198	1693
NOV 1988 f			244 g			465 g	709	4794	4855	9649	5038	5320	10358	1682
MAY 1989 f			244 g			465 g	709	4880	4860	9740	5124	5325	10449	1696
NOV 1989 f			244 g			465 g	709	4923	4885	9808	5167	5350	10517	1748

NA No longer available.

[a] Included are those listed in the November ***Textile Organon*** issue, with the exception of Aramid fiber as of November 1983. Yarn+mono includes olefin film fiber and spunbonded polypropylene. Staple+tow includes fiberfill.

[b] Data include diacetate and triacetate. The acetate staple+tow data do not include the large poundages for cigarette filtration.

[c] Grand Total Yarn means the yarn+mono shown, excluding textile glass fiber.

[d] Textile glass fiber, all types.

[e] Actual producing capacity as of the date shown.

[f] Future producing capacity planned for certain dates as of MAY 1988.

[g] Detail withheld due to disclosure of company data.

TABLE 10:
NONCELLULOSIC FIBER CAPACITY DETAIL
MILLION POUNDS & *AVERAGE DENIER*

	FILAMENT YARN, MONOFIL & OLEFIN FILM FIBER												STAPLE, TOW & FIBERFILL					NON-CELLU-LOSIC TOTAL
	NYLON+ARAMID				POLYESTER			OLEFIN [a]					NYLON + ARAMID	ACRYL +MOD ACRYL	POLY-ESTER	OLEFIN + VINYON [f]	TOTAL	
			TEXTILE			TEXTILE												
PERIOD	IND	CARP	LBS	DEN	IND	LBS	DEN	YARN	MONO [b]	FILM [b]	OTHER [c]	TOTAL						
NOV 1976 d	519	787	552	*54*	442	1701	*133*	178	312	371	16	4878	910	869	2355	120	4254	9132
NOV 1977 d	523	829	558	*55*	443	1698	*126*	173	336	398	16	4974	939	869	2470	116	4394	9368
NOV 1978 d	510	908	565	*53*	443	1643	*116*	174	347	394	16	5000	1023	865	2554	129	4571	9571
NOV 1979 d	513	950	579	*51*	443	1699	*114*	172	342	408	20	5126	1020	839	2673	146	4678	9804
NOV 1980 d	515	910	551	*52*	400	1637	*113*	120	350	430	20	4933	991	830	2759	134	4714	9647
NOV 1981 d	514	893	553	*49*	316	1481	*114*	178	356	455	20	4766	1010	835	2839	266	4950	9716
NOV 1982 d	474	925	513	*53*	338	1265	*119*	209	369	460	30	4583	978	832	2700	271	4781	9364
NOV 1983 d	440	907	494	*52*	337	1170	*122*	240	375	484	30	4477	1017	826	2704	280	4827	9304
NOV 1984 d	437	926	470	*57*	342	1162	*121*	270	386	486	30	4509	1054	807	2784	336	4981	9490
NOV 1985 d	437	965	466	*53*	374	1097	*126*	304	412	613	30	4698	1067	631	2785	407	4890	9588
NOV 1986 d	435	964	398	*51*	401	1021	*123*	286	407	633	30	4575	1077	637	2491	457	4662	9237
NOV 1987 d	418	1005	404	*49*	399	929	*121*	342	393	667	30	4587	1137	652	2522	482	4793	9380
MAY 1988 e	419	1012	409	*48*	399	931	*121*	383	404	689	30	4676	1137	652	2533	491	4813	9489
NOV 1988 e	421	1059	424	*48*	412	931	*121*	412	415	690	30	4794	1163	657	2543	492	4855	9649
MAY 1989 e	421	1095	425	*48*	421	931	*121*	447	416	694	30	4880	1168	657	2543	492	4860	9740
NOV 1989 e	421	1118	429	*48*	421	931	*121*	463	416	694	30	4923	1173	657	2543	512	4885	9808

NOTE: As of the November 1983 survey, nylon capacity data no longer include Aramid Fiber.
IND Industrial yarn and monofil, i.e., 500 denier & coarser, with an Instron tenacity of 7 grams per denier or more.
CARP Bulked continuous filament yarn for carpets.
TEXTILE Yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.
NA Not Available.
a. Includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles, film fiber used for decorative or tying ribbons, etc.
b. Includes the circular and rectangular (ribbon) cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated fiber.
c. Other yarn & monofil is chiefly saran and spandex. Aramid data are included with nylon.
d. Actual producing capacity as of date shown.
e. Future producing capacity planned for certain dates as of MAY 1988.
f. Data since November 1986 do not include Vinyon.

SURVEY COVERAGE & DEFINITIONS

The survey figures shown in the table above cover the man-made fibers in all their primary forms; i.e., filament yarn, monofilaments, polypropylene spunbonded and film fiber are tabulated as filament yarn, while staple, tow and fiberfill are tabulated as staple. The glass fiber data cover all primary forms of that fiber (yarn and strand, staple yarn and sliver, roving and cake, chopped and milled fiber and mat) although only an aggregate figure is published to avoid disclosure of individual company data. **Glass fiber data are no longer included with the filament yarn totals. The data were last published in the December 1984 Issue.** The "capacity" to produce waste is **not** included in this survey.

Capacity is based on the current and projected "mix" of deniers, filament counts, packages, etc. It is **emphasized** that all figures refer to ***current*** and ***planned*** capacity. **They are not to be interpreted as a production forecast.**

Under the survey definitions, all productive equipment which is currently, or is planned to be, in operable condition is counted as capacity, regardless of whether it is actually producing fiber at the time the capacity measurement is taken. Equipment which is definitely scheduled for scrapping, or which has been scrapped since the last survey, is excluded from the capacity tabulation. The capacity data reflect ***potential***, rather than ***operating*** capacity.

GRAPH 2:
WESTERN EUROPE FIBER PRODUCTION & PRODUCING CAPACITY

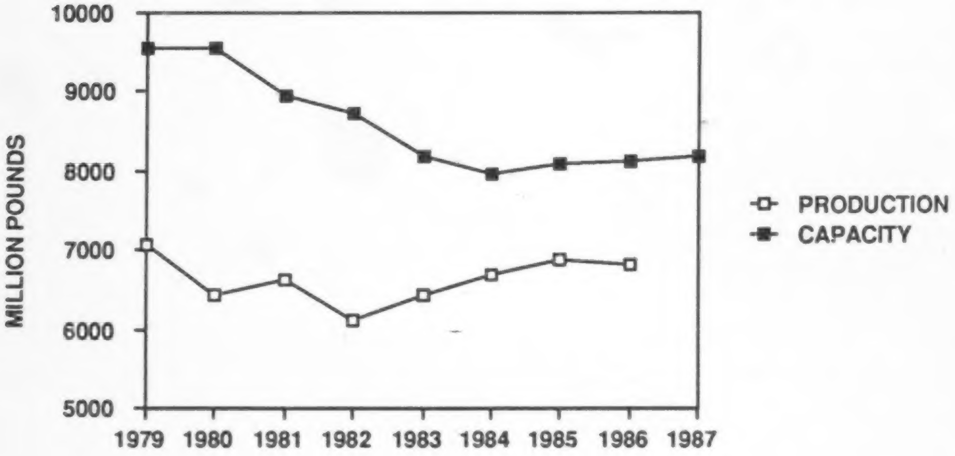

TABLE 11:
WESTERN EUROPE FIBER PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS

	PRODUCTION			CAPACITY		
YEAR	**CELLULOSIC**	**NONCELLULOSIC**	**TOTAL**	**CELLULOSIC**	**NONCELLULOSIC**	**TOTAL**
1979	1829	5251	7080	2187	7359	9546
1980	1640	4782	6422	2142	7428	9570
1981	1565	5064	6629	1929	7033	8962
1982	1416	4702	6118	1930	6783	8713
1983	1389	5056	6445	1638	6535	8173
1984	1341	5358	6699	1515	6449	7964
1985	1241	5623	6864	1535	6567	8102
1986	1152	5650	6802	1440	6676	8116
1987	NA	NA	NA	1362	6827	8189

SOURCE: ***Textile Organon*** Worldwide Fiber Production & Producing Capacity Surveys, July 1987 and earlier editions.

NA Not available.

TABLE 12:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1987												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	138	0	43	42	21	0	0	0	0			244	30
BRAZIL	86	29	0	28	54	88	29	44	64	134			556	249
CANADA	425	368	175	323	285	70	137	180	248	301			2512	4109
GERMANY, FED. REP.	442	229	561	363	332	352	370	499	426	588			4162	4304
JAPAN	209	10	39	39	6	38	66	16	63	94			580	321
MEXICO	3	15	10	102	28	18	58	111	104	44			493	587
NETHERLANDS	101	43	105	147	38	40	42	176	63	127			882	1881
ALL OTHER COUNTRIES [a]	1	3	1	0	1	27	14	80	30	55			212	1475
TOTAL CELLULOSIC YARN	**1267**	**835**	**891**	**1045**	**786**	**654**	**716**	**1106**	**998**	**1343**			**9641**	**12956**
CELLULOSIC STAPLE+TOW														
CANADA	749	1188	1356	1230	841	1185	420	1115	885	687			9656	10302
ITALY	88	0	59	51	61	35	78	149	66	36			623	344
JAPAN	59	168	168	18	98	61	59	60	94	99			884	947
SWEDEN	43	0	0	48	89	39	0	0	0	110			329	445
UNITED KINGDOM	46	5	73	24	0	41	42	27	41	22			321	625
ALL OTHER COUNTRIES [b]	0	63	4	7	0	36	5	0	0	11			126	2048
TOTAL CELLULOSIC STAPLE+TOW	**985**	**1424**	**1660**	**1378**	**1089**	**1397**	**604**	**1351**	**1086**	**965**			**11939**	**14711**
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1408	1377	559	560	653	849	671	2122	893	1220			10312	10542
CANADA	890	1976	1613	1605	1802	1214	1426	1726	1624	1210			15086	13120
CHINA, PRC	0	0	94	0	267	30	0	0	0	0			391	60
COSTA RICA	729	515	642	589	590	564	585	489	510	475			5688	5502
DENMARK	31	62	0	0	32	30	30	0	30	0			215	183
FRANCE	686	685	659	648	306	678	331	91	72	550			4706	6446
GERMANY, FED. REP.	1744	2397	2421	2740	1373	1347	2176	2052	1900	1851			20001	17572
IRELAND	81	58	0	0	106	79	54	0	35	34			447	446
ISRAEL	162	233	90	249	321	97	165	300	228	296			2141	2654
ITALY	1202	866	1292	1254	940	985	1020	394	1748	1446			11147	10598
JAPAN	992	570	670	661	525	548	523	691	492	408			6080	6744
KOREA, REP. OF	41	21	22	20	60	25	25	25	72	46			357	248
MEXICO	1167	2037	2527	1939	1660	871	1829	1268	1757	2087			17142	10824
NETHERLANDS	93	184	151	99	61	62	154	90	83	62			1039	1235
SINGAPORE	73	0	66	44	21	23	49	55	0	66			397	115
SWITZERLAND	253	2	64	2	9	1	15	+	2	44			392	442
TAIWAN	14	39	63	46	34	116	104	89	106	57			668	832
UNITED KINGDOM	735	596	844	894	483	670	610	773	821	762			7188	6012
ALL OTHER COUNTRIES [c]	151	142	119	144	48	86	194	226	41	269			1420	7138
TOTAL NONCELLULOSIC YARN	**10452**	**11760**	**11896**	**11494**	**9291**	**8275**	**9961**	**10391**	**10414**	**10883**			**104817**	**100713**
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	61	18	130	177	38	312	274	287	240	353			1890	334
BELGIUM	21	36	18	18	53	1	+	17	0	15			179	425
BRAZIL	0	438	236	379	262	297	0	61	0	0			1673	608
CANADA	3125	3071	3201	2248	2236	2507	2725	1771	2893	2263			26040	19260
FRANCE	955	588	532	585	520	1193	279	766	639	469			6526	8431
GERMANY, FED. REP.	2586	2359	2194	2463	1766	1951	2805	3147	4935	3892			28098	25177
IRELAND	109	0	0	0	0	344	91	122	394	403			1463	218
ISRAEL	62	0	31	0	291	36	0	36	1	0			457	449
ITALY	2265	1688	2200	980	344	1183	100	853	1304	1220			12137	18315
JAPAN	1849	1582	2230	2472	1577	2390	1698	2317	1574	2185			19874	18677
KOREA, REP. OF	935	947	655	614	1247	956	1106	1254	819	1053			9586	4014
MALAYSIA	48	95	0	95	87	95	0	48	48	0			516	96
MEXICO	1586	1232	1784	824	2080	1303	3161	3339	2043	1279			18631	12867
ROMANIA	372	58	590	88	516	749	339	615	271	303			3901	1849
SWITZERLAND	71	152	198	89	17	70	66	34	96	85			878	644
TAIWAN	1911	1559	1338	2580	1985	2003	1774	2390	2019	1521			19080	15944
UNITED KINGDOM	777	1280	1522	1264	1635	1032	953	1339	687	1474			11963	18769
ALL OTHER COUNTRIES [d]	24	13	135	72	103	7	80	85	475	74			1068	2514
TOTAL NONCELLULOSIC STAPLE+TOW	**16757**	**15116**	**16994**	**14948**	**14757**	**16429**	**15451**	**18481**	**18438**	**16589**			**163960**	**148591**

+ Less than 1 thousand pounds.

a. Italy 79, Taiwan 50,Hong Kong 39, France 20, Singapore 15, Australia 5, United Kingdom 2, Belgium 1, Korea, Rep. of 1.

b. Austria 76, Germany, Fed. Rep. 23, Mexico 9, France 8, Venezuela 4, Finland 3, Brazil 2, Belgium 1.

c. Spain 302, Romania 166, Turkey 124, Australia 115, Argentina 111, New Zealand 110, Chile 90, South Africa 88, Finland 61, Austria 48, Sweden 42, Iran 39, Morocco 33, Norway 32, Philippines 27, Brazil 19, Bangladesh 6, Thailand 4, Greece 1, Guatemala 1, Iceland 1, El Salvador, Hong Kong.

d. Spain 425, Australia 226, Denmark 138, Hong Kong 95, Costa Rica 91, Turkey 38, China, PRC 28, Netherlands 16, Egypt 7, Portugal 2, India 1, Sweden 1, N. Antil., Philippines.

TABLE 13:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1987												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
CELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	29	139	0	45	57	20	0	0	0	15			305	482
OTHER	310.0130 & .0230[a]	1237	691	891	1000	729	607	704	1026	969	1279			9133	11737
MONOFILAMENTS	309.0310 & .0610	0	5	0	0	0	0	0	+	0	0			5	20
STRIPS, $1/LB & UNDER	309.2000*	1	0	0	0	0	27	12	80	29	49			198	717
SUBTOTAL ABOVE		**1267**	**835**	**891**	**1045**	**786**	**654**	**716**	**1106**	**998**	**1343**			**9641**	**12956**
STAPLE	309.4320 & .4325	867	1402	1569	1336	1072	1397	542	1116	968	895			11164	13795
GROUPED FILAMENTS	309.3010 & .3310	118	22	91	42	17	0	62	235	118	70			775	916
SUBTOTAL ABOVE		**985**	**1424**	**1660**	**1378**	**1089**	**1397**	**604**	**1351**	**1086**	**965**			**11939**	**14711**
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	**0**	**0**	**0**	**7**	**0**	**21**	**0**	**0**	**0**	**0**			**28**	**121**
NONCELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	142	163	113	123	147	150	188	228	170	243			1667	2410
450 DENIER AND OVER	310.0108 & .0208	2592	2933	3169	3131	1822	1660	1917	1752	2810	2121			23907	27655
- POLYESTER	310.0110 & .0210	1000	2243	1670	1399	1016	650	1165	1062	1102	1306			12613	10263
- OTHER	310.0114 & .0214	1876	2010	1396	1300	1785	1867	1595	3246	1980	2170			19225	15582
OTHER - NYLON	310.0149 & .0249	2008	2121	2350	2348	1695	1694	2086	1757	2033	2030			20122	18134
- POLYESTER	310.0150 & .0250	1918	1327	2088	2006	1590	1438	1693	1191	1329	1731			16311	19194
- OTHER	310.0170 & .0270[b]	445	486	610	680	713	358	725	622	443	523			5605	4029
MONOFILAMENTS	309.0200 & .0330[c]	272	281	265	263	354	297	329	310	336	461			3168	2133
STRIPS, OVER $1/LB	309.2100 & .2500*	199	196	235	244	169	161	263	223	211	298			2199	1313
SUBTOTAL ABOVE		**10452**	**11760**	**11896**	**11494**	**9291**	**8275**	**9961**	**10391**	**10414**	**10883**			**104817**	**100713**
STAPLE - NYLON	309.4331 & .4351	5346	4106	5357	3521	2137	3037	1984	3374	3202	3621			35685	41595
- POLYESTER	309.4336 & .4361	5335	5030	5122	4833	6596	5980	6805	7910	8667	5973			62251	30110
- ACRYLIC	309.4366	1216	839	1202	1285	1073	1724	1521	1617	1516	1204			13197	14035
- OLEFIN	309.4371	2	153	42	38	21	28	37	41	77	8			447	1702
- OTHER	309.4341 & .4390	479	904	1233	1011	918	1567	1152	1261	1103	1477			11105	13095
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3012	2523	2383	2409	2436	2723	2548	2867	2765	2939			26605	32820
POLYESTER	309.3040 & .3340	367	279	441	383	260	145	297	53	149	160			2534	1659
ACRYLIC	309.3050 & .3350	861	1144	1073	1290	1015	1104	947	1234	896	1128			10692	11302
OTHER	309.3065 & .3365	139	138	141	178	301	121	160	124	63	79			1444	2273
SUBTOTAL ABOVE		**16757**	**15116**	**16994**	**14948**	**14757**	**16429**	**15451**	**18481**	**18438**	**16589**			**163960**	**148591**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2279	2182	3100	1454	2026	2732	2280	2160	2151	2042			22406	18087
- POLYESTER	309.6630	1077	823	1475	867	525	1035	377	688	321	828			8016	5125
- ACRYLIC	309.6645	20	53	0	18	41	0	18	53	29	38			270	289
- OTHER	309.6660	415	518	810	415	460	339	269	199	399	589			4413	7052
NOILS & GARNETTED FIBERS	309.7000*	0	0	0	0	0	31	0	0	31	0			62	121
OTHER WASTE, ADVANCED	309.7525 - .7555	42	153	67	638	1016	243	848	551	266	730			4554	2521
SUBTOTAL ABOVE		**3833**	**3729**	**5452**	**3392**	**4068**	**4380**	**3792**	**3651**	**3197**	**4227**			**39721**	**33195**
TOTAL MAN-MADE ABOVE		**33294**	**32864**	**36893**	**32264**	**29991**	**31156**	**30524**	**34980**	**34133**	**34007**			**330106**	**310287**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0	0	2	0	3	0			5	1
- NONCELLULOSIC	310.1015[d] & .1205[e]	142	337	528	392	440	487	299	322	381	220			3548	9690
OTHER - CELLULOSIC	310.1030 & .1535[f]	8	85	77	43	19	72	12	72	16	23			427	404
- NONCELLULOSIC	310.1050 & .1070[g]	336	339	306	285	157	214	252	266	289	269			2713	3673
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	151	112	165	134	60	143	165	222	77	130			1359	2198
- OTHER	310.4015 & .4027[i]	2574	3765	3067	3780	4318	3892	3561	2543	2389	2782			32671	36653
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	1493	1673	1629	2004	1943	2792	2993	2628	2849	3397			23401	13728
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	831	662	737	690	689	915	811	562	844	751			7492	4031
SLIVER, TOPS & ROVING	309.9000	383	279	281	607	585	1021	594	260	716	410			5136	2846
TEXTILE GLASS FIBER	309.2800 & .2900[k]	1431	1868	1653	2285	1279	2046	2459	4637	4240	2869			24767	19809
GRAND TOTAL ABOVE		**40643**	**41984**	**45336**	**42484**	**39481**	**42738**	**41672**	**46492**	**45937**	**44858**			**431625**	**403320**

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

+ Less than 1 thousand pounds.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 14:
U.S. EXPORTS OF MAN-MADE FIBERS
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1987												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
CELLULOSIC FIBERS															
FILAMENT YARN [a]															
TEXTURED	310.0004	43	100	101	24	17	12	36	28	135	22			518	85
OTHER [b]	310.0026	475	365	639	468	654	306	503	372	260	335			4377	6034
MONOFILAMENTS	309.0110	0	0	0	2	0	+	39	0	34	93			168	222
STRIPS	309.2210	1	1	40	2	13	0	3	11	4	4			79	14
SUBTOTAL ABOVE		**519**	**466**	**780**	**496**	**684**	**318**	**581**	**411**	**433**	**454**			**5142**	**6355**
STAPLE+TOW-RAYON	309.4222	3930	1732	3107	2705	2582	2700	4047	4355	4372	1799			31329	25490
STAPLE-ACETATE	309.4219	33	112	156	112	215	164	144	96	159	121			1312	1418
SUBTOTAL ABOVE		**3963**	**1844**	**3263**	**2817**	**2797**	**2864**	**4191**	**4451**	**4531**	**1920**			**32641**	**26908**
WASTE, ADVANCED&NOT ADVANCED	309.7400	**231**	**169**	**47**	**134**	**52**	**35**	**50**	**113**	**12**	**133**			**976**	**1936**
NONCELLULOSIC FIBERS															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	2678	2441	2542	2077	2760	3503	2614	3644	3286	2496			28041	20363
- HIGH TENACITY [c]	310.0027	7294	6373	5419	6719	7072	5385	8394	8212	4926	7044			66838	61781
- OTHER	310.0029	636	684	605	753	883	1054	571	639	1020	851			7696	8750
POLYESTER - TEXTURED	310.0010	2151	2949	3145	2473	2079	1983	1523	1752	1467	1772			21294	64156
- HIGH TENACITY [c]	310.0032	1691	1913	2306	1475	1806	2286	3231	2612	2259	1942			21523	18378
- OTHER [d]	310.0034	160	233	152	75	201	161	122	139	112	115			1470	2233
OTHER - TEXTURED	310.0014	1053	1386	1502	1133	1406	1995	1520	1344	1405	1275			14019	19415
- OLEFIN	310.0040	74	35	53	55	16	72	18	157	88	69			637	1559
- OTHER	310.0044	389	577	654	748	445	737	488	433	405	458			5334	5212
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	416	687	641	417	553	676	370	621	556	668			5605	3885
POLYESTER	309.0140	322	523	524	587	1447	1142	954	1154	1429	1534			9616	4979
OTHER	309.0170	478	492	875	480	718	656	502	617	628	911			6357	3728
STRIPS	309.2220 & .2270	259	424	470	342	537	360	203	375	346	664			3980	3157
SUBTOTAL ABOVE		**17601**	**18717**	**18890**	**17334**	**19923**	**20010**	**20510**	**21699**	**17927**	**19799**			**192410**	**217596**
STAPLE - NYLON	309.4240	2060	1757	2615	1445	2092	1258	1694	1315	1996	2238			18470	11706
- POLYESTER	309.4242	18819	17019	16575	14494	13960	15011	11006	13848	12834	13720			147286	84594
- ACRYLIC	309.4245	4792	3355	2531	2440	4482	5365	4746	4997	7953	10827			51488	50028
- OLEFIN	309.4246	1893	2016	2642	2075	1583	1203	1849	1701	2060	1332			18354	12168
- OTHER	309.4247	1004	3194	2027	2959	4586	7965	2919	1998	1925	2708			31285	14011
GROUPED FILAMENTS															
NYLON	309.3220	283	737	386	275	259	470	401	350	394	740			4295	4370
POLYESTER [d]	309.3240	1941	1832	1578	2318	1728	1811	1233	1095	1939	1769			17244	17003
ACRYLIC	309.3250 & .3255	1653	2207	1805	1980	2329	1768	2395	2116	2415	2159			18827	19284
SUBTOTAL ABOVE		**32445**	**32117**	**30159**	**27986**	**31019**	**34851**	**26243**	**27420**	**31516**	**35493**			**307249**	**213164**
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	1021	1143	1095	1164	1260	1066	225	892	641	843			9350	7138
- POLYESTER	309.7630	2830	4649	5303	5570	5293	4829	3927	4753	4135	5746			47035	49600
- ACRYLIC	309.7640	1086	1362	1545	432	428	701	456	681	664	631			7986	5189
- OTHER	309.7660	2543	3090	5034	2174	2633	3380	1485	2039	3866	3100			29344	36808
SUBTOTAL ABOVE		**7480**	**10244**	**12977**	**9340**	**9614**	**9976**	**6093**	**8365**	**9306**	**10320**			**93715**	**98735**
TOTAL MAN-MADE ABOVE		**62239**	**63557**	**66116**	**58107**	**64089**	**68054**	**57668**	**62459**	**63725**	**68119**			**632133**	**564694**
TEXTILE GLASS FIBER	309.2700 & .9700	5992	6585	7160	7265	7967	7821	6250	7599	6180	7515			70334	50606
GRAND TOTAL ABOVE		**68231**	**70142**	**73276**	**65372**	**72056**	**75875**	**63918**	**70058**	**69905**	**75634**			**702467**	**615300**

SOURCE: U.S. Census Bureau Report EM522.

+ Less than 1 thousand pounds.

a. Includes thrown, singles and plied yarn.

b. Includes rayon tire cord and cord fabric.

c. Includes noncellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

TABLE 15:
FILAMENT YARN DOMESTIC SHIPMENTS[a]

MILLION POUNDS

		ANNUAL DATA				QUARTERLY DATA							
						1986				1987			
ITEM		1983	1984	1985	1986	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(C) CELLULOSIC YARN[j]			(N) NYLON				(P) POLYESTER				(O) OLEFIN		
HOSIERY[b]	N	104.3	101.5	98.1	95.1	26.5	25.3	22.8	20.5	23.6	23.5	23.8	
OTHER CIRCULAR KNIT[c]	N	24.5	17.6	12.9	21.3	4.3	6.0	4.0	7.0	7.7	7.0	6.1	
	P	293.7	174.7	151.2	150.3	38.6	37.4	37.3	37.0	28.8	38.0	34.9	
	C	2.1	2.3	2.6	2.0	0.6	0.6	0.6	0.2	0.4	0.3	0.2	
FLAT KNIT	C	79.1	67.2	53.0	47.8	11.4	13.7	11.7	11.0	8.7	8.1	5.0	
	N	162.2	135.2	143.6	133.8	36.8	33.2	32.5	31.3	32.0	32.6	33.2	
	P	116.6	137.3	160.8	167.1	38.7	38.9	44.5	45.0	37.5	40.6	41.3	
CARPET FACE	N	734.6	770.2	815.4	881.4	207.0	217.8	235.6	221.0	228.5	235.4	246.1	
	O	147.2	154.1	202.1	215.7	49.7	50.5	53.9	61.6	58.4	60.8	63.0	
CARPET BACKING[d]	O	198.8	227.8	354.6	404.1	89.1	98.0	99.4	117.6	98.1	106.9	110.2	
OTHER BROAD WOVEN[e]	C	113.6	108.8	111.3	126.3	31.9	31.9	31.7	30.8	26.3	31.7	31.4	
	N	83.6	90.7	71.4	76.2	20.2	19.7	18.0	18.3	17.7	19.6	21.4	
	P	489.9	392.2	420.1	344.4	87.1	77.5	89.3	90.5	94.7	97.0	91.8	
	O	201.1	190.3	225.7	271.5	61.4	66.7	69.3	74.1	68.9	77.1	80.3	
NARROW WOVEN[f]	C	1.7	0.7	1.5	2.0	0.9	0.2	0.3	0.6	0.4	0.4	0.4	
	N	35.3	39.9	31.1	33.9	8.0	8.6	8.5	8.8	10.2	11.3	10.6	
	P	35.5	38.7	40.0	44.0	11.5	10.7	10.9	10.9	12.7	17.1	18.7	
	O	15.0	14.9	15.2	17.5	4.5	4.5	4.4	4.1	4.1	3.6	4.6	
TIRES, INCL. CHAFER[g]	N	145.5	172.9	146.0	134.2	35.8	33.5	30.5	34.4	38.8	32.5	35.9	
	P	174.1	174.4	155.5	159.3	44.7	37.4	39.5	37.7	41.1	41.5	41.9	
OTHER RUBBER INDUSTRY[c g]	N	16.3	20.9	15.3	15.2	4.2	3.6	4.0	3.4	3.8	4.4	4.0	
	P	27.8	32.7	31.2	27.2	2.9	8.4	8.2	7.7	8.6	8.8	8.7	
ROPE, CORDAGE & FISHLINE	N	31.7	35.0	35.3	36.4	9.6	9.5	8.4	8.9	9.2	9.8	10.4	
	P	12.2	15.7	13.8	13.0	3.4	3.4	2.9	3.3	3.4	3.1	3.5	
	O	95.5	106.9	108.2	106.3	27.0	28.2	23.4	27.7	25.0	28.2	24.5	
ALL OTHER[h]	C	1.1	1.1	18.7	14.0	3.8	4.0	3.4	2.8	3.4	3.1	3.2	
	N	54.4	54.2	48.3	52.1	11.0	11.5	13.4	16.2	17.8	18.7	14.3	
	P	144.6	179.2	231.7	187.1	57.9	39.8	41.1	48.3	41.0	40.1	41.0	
	O	41.0	31.6	31.8	34.1	9.6	10.5	7.4	6.6	7.0	5.2	4.9	
TOTAL ABOVE	**C**	**197.6**	**180.1**	**187.1**	**192.1**	**48.6**	**50.4**	**47.7**	**45.4**	**39.2**	**43.6**	**40.2**	
	N	**1392.4**	**1438.1**	**1417.4**	**1479.6**	**363.4**	**368.7**	**377.7**	**369.8**	**389.3**	**394.8**	**405.8**	
	P	**1294.4**	**1144.9**	**1204.2**	**1092.4**	**284.8**	**253.5**	**273.7**	**280.4**	**267.8**	**286.2**	**281.8**	
	O	**698.6**	**725.6**	**937.6**	**1049.2**	**241.3**	**258.4**	**257.8**	**291.7**	**261.5**	**281.8**	**287.5**	
TOTAL DOMESTIC		**3583.0**	**3488.7**	**3746.3**	**3813.3**	**938.1**	**931.0**	**956.9**	**987.3**	**957.8**	**1006.4**	**1015.3**	
ALSO DIVIDED AS													
APPAREL		*1257.5*	*1072.1*	*1064.7*	*949.4*	*247.4*	*236.3*	*231.0*	*234.7*	*223.6*	*248.1*	*230.6*	
HOME FURNISHINGS		*1328.7*	*1354.2*	*1624.9*	*1746.8*	*405.5*	*419.7*	*454.8*	*466.8*	*444.1*	*467.1*	*482.5*	
INDUSTRIAL		*996.8*	*1062.4*	*1056.7*	*1117.1*	*285.2*	*275.0*	*271.1*	*285.8*	*290.1*	*291.2*	*302.2*	
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET)[i]													
NYLON		127.1	118.7	114.9	115.8	29.7	31.3	28.5	26.3	NA	NA	NA	
POLYESTER		832.4	675.5	776.3	634.6	168.9	144.0	158.1	163.6	149.3	165.8	156.1	
OLEFIN		28.0	23.3	22.3	22.9	5.1	5.8	5.9	6.1	6.1	6.9	6.0	

NA No longer available.

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small quantities of polyester and cellulosic yarn are included in All Other.

c. Small quantities of olefin are included in All Other.

d. Small quantities of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Cellulosic yarn quantities included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.

i. These quantities are included in the Total Domestic area above.

j. Data prior to 1985 contain acetate yarn only. Data for 1985-1987 contain acetate and rayon yarn.

TABLE 16:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1986				1987			
		1983	1984	1985	1986	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(R) RAYON (N) NYLON (A) ACRYLIC+MODACRYLIC (P) POLYESTER (O) OLEFIN													
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	237.3	204.8	197.2	228.8	57.2	62.1	54.9	54.6	57.0	51.4	44.6	
	NPR	9.5	6.6	5.5	5.1	1.4	1.2	1.4	1.1	0.8	0.8	0.9	
PILE FABRICS[b]	A	33.0	30.0	24.5	23.2	6.0	6.6	6.2	4.4	5.6	5.7	5.1	
	P	18.2	18.4	14.9	15.0	4.1	3.5	3.9	3.5	4.4	5.1	6.2	
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	3.5	4.3	5.5	4.7	1.1	1.1	1.1	1.4	1.2	1.3	0.6	
	A	129.5	118.5	139.1	196.3	38.7	55.6	56.7	45.3	55.7	53.8	42.9	
	P	354.4	283.0	295.5	367.8	87.9	89.2	89.7	101.0	115.2	117.6	106.3	
BLANKETS[b]	A	27.1	25.2	30.2	26.7	6.6	6.7	7.7	5.7	5.9	6.6	7.6	
	P	10.5	5.5	6.2	3.7	0.8	1.0	1.3	0.6	1.3	1.8	2.8	
OTHER BROAD WOVEN	R	182.1	177.7	174.9	218.0	53.9	53.2	55.1	55.8	52.9	55.2	59.9	
	N	59.0	42.5	37.4	37.0	10.0	9.7	8.6	8.7	9.2	8.1	11.1	
	A	32.5	29.5	38.2	35.3	9.8	8.4	8.4	8.7	9.9	10.9	10.1	
	P	1062.9	1039.1	864.9	885.6	226.8	229.8	218.3	210.7	205.3	218.1	202.9	
	O	19.4	22.1	26.9	18.0	1.0	5.0	4.9	7.1	4.8	4.7	5.5	
CARPET FACE YARNS[f]	R	0.2	0.3	0.5	0.4	0.1	0.2	+	0.1	+	+	0	
	N	815.2	751.0	773.9	837.8	180.1	188.6	240.8	228.3	230.2	239.3	230.6	
	P	139.0	131.4	126.8	145.0	31.3	38.4	36.9	38.4	46.8	50.7	51.4	
	O	93.6	96.5	107.4	117.2	25.4	30.4	28.1	33.3	24.3	28.9	31.5	
FIBERFILL[d]	P	275.4	276.1	281.1	294.9	71.6	69.1	74.4	79.8	88.9	80.7	83.6	
FLOCK	NP	10.6	9.2	5.3	5.9	1.6	1.4	1.2	1.7	1.6	1.0	1.3	
	R	3.2	2.7	1.8	1.8	0.6	0.4	0.5	0.3	0.5	0.4	0	
NONWOVENS[e,f]	R	119.0	126.3	113.5	125.4	31.7	33.2	32.9	27.6	31.1	28.6	31.8	
	N	4.9	2.8	2.5	2.1	0.5	0.5	0.5	0.5	0.4	0.4	0.5	
	P	177.4	177.2	162.5	175.3	46.5	41.4	42.4	45.0	48.7	47.7	51.4	
	[g] VINYON+O	61.5	119.2	135.8	166.2	42.3	45.2	41.1	37.6	49.4	50.4	47.8	
ALL OTHER	R	23.8	18.8	25.9	20.8	3.7	3.5	5.0	8.6	6.0	5.3	5.4	
	N	5.2	9.4	11.2	11.9	2.9	3.0	3.0	3.0	4.6	4.4	2.8	
	A	32.8	38.7	29.5	20.9	4.8	4.3	4.8	7.0	5.3	3.2	2.5	
	P	55.8	56.2	116.9	108.3	29.3	26.7	28.6	23.7	23.3	27.6	32.1	
	[g]VINYON+O	8.9	3.1	9.6	11.3	5.2	2.0	2.3	1.8	2.6	1.7	1.3	
TOTAL ABOVE	**R**	**333.5**	**331.9**	**323.7**	**373.0**	**91.6**	**92.0**	**95.1**	**94.3**	**91.8**	**91.0**	**97.9**	
	N	**897.1**	**814.4**	**830.3**	**894.9**	**195.2**	**203.2**	**254.3**	**242.2**	**246.2**	**253.2**	**246.2**	
	A	**492.2**	**446.7**	**458.7**	**531.2**	**123.1**	**143.7**	**138.7**	**125.7**	**139.4**	**131.0**	**112.8**	
	P	**2099.2**	**1992.2**	**1872.7**	**1998.6**	**499.1**	**499.9**	**496.3**	**503.3**	**534.4**	**549.9**	**537.5**	
	[g]VINYON+O	**183.4**	**240.9**	**279.7**	**312.7**	**73.9**	**82.6**	**76.4**	**79.8**	**81.1**	**85.7**	**86.1**	
TOTAL DOMESTIC		**4005.4**	**3826.1**	**3765.1**	**4110.4**	**982.9**	**1021.4**	**1060.8**	**1045.3**	**1092.9**	**1111.4**	**1080.5**	
ALSO DIVIDED AS													
APPAREL		*1461.3*	*1277.1*	*1255.0*	*1489.3*	*363.6*	*390.5*	*372.6*	*362.6*	*386.0*	*388.9*	*351.3*	
HOME FURNISHINGS		*1630.0*	*1559.0*	*1536.9*	*1625.8*	*371.0*	*385.1*	*436.8*	*432.9*	*425.1*	*450.6*	*448.3*	
INDUSTRIAL		*914.1*	*992.1*	*973.2*	*995.3*	*248.3*	*245.8*	*251.4*	*249.8*	*281.8*	*271.9*	*280.9*	

a. Olefin quantities are included in All Other.
b. Rayon and nylon quantities are included in All Other.
c. Nylon quantities are included in All Other.
d. Rayon, acrylic and nylon quantities are included in All Other.
e. Wet & dry laid and needled batts only.
f. Acrylic quantities are included in All Other.
g. 1987 data exclude Vinyon.

TABLE 17:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

	1987												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
	MAN-MADE FIBER TOTAL SHIPMENTS[b,c]													
CELLULOSIC														
YARN	14.6	13.7	15.9	16.5	16.1	16.9	14.6	14.8	16.9	17.1	15.7		172.8	194.1
RAYON STAPLE	34.1	29.7	36.1	33.2	31.6	34.4	33.6	37.0	39.9	36.5	32.8		378.9	368.4
TOTAL CELLULOSIC	**48.7**	**43.4**	**52.0**	**49.7**	**47.7**	**51.3**	**48.2**	**51.8**	**56.8**	**53.6**	**48.5**		**551.7**	**562.5**
NONCELLULOSIC														
YARN														
NYLON[d] - INDUSTRIAL[e]	31.0	32.8	30.6	29.5	35.7	30.0	30.6	31.2	29.6	31.7	30.3		343.0	302.5
- CARPET	75.1	77.6	79.9	76.9	86.2	78.5	80.4	82.5	89.1	78.1	65.3		869.6	827.8
- TEXTILE[g]	30.5	30.4	33.5	32.1	32.4	31.4	31.1	31.5	33.5	30.1	31.2		347.7	332.0
POLYESTER - INDUSTRIAL[e]	26.6	27.6	29.4	27.7	28.0	26.9	26.1	29.6	30.7	30.3	27.1		310.0	286.1
- TEXTILE[g]	63.3	64.0	72.3	75.7	73.6	71.7	72.3	65.9	72.0	70.9	72.4		774.1	783.4
OLEFIN[f]	92.3	87.6	84.3	88.9	91.4	103.2	83.2	99.1	107.0	96.0	94.9		1027.9	962.7
TOTAL YARN	**318.8**	**320.0**	**330.0**	**330.8**	**347.3**	**341.7**	**323.7**	**339.8**	**361.9**	**337.1**	**321.2**		**3672.3**	**3494.5**
STAPLE														
NYLON	84.1	81.2	86.2	88.7	91.1	78.4	81.6	84.2	84.1	88.4	71.4		919.4	831.5
ACRYLIC+MODACRYLIC	49.2	50.7	54.2	51.2	52.3	45.1	47.5	50.0	47.3	51.4	43.5		542.4	567.9
POLYESTER	184.8	192.2	205.6	195.1	193.4	208.4	181.6	186.5	207.7	205.3	199.4		2160.0	1939.6
OLEFIN+VINYON[h]	28.2	27.9	31.9	31.1	30.0	30.3	26.9	32.0	32.6	31.3	30.8		333.0	304.4
TOTAL STAPLE	**346.3**	**352.0**	**377.9**	**366.1**	**366.8**	**362.2**	**337.6**	**352.7**	**371.7**	**376.4**	**345.1**		**3954.8**	**3643.4**
TOTAL NONCELLULOSIC	**665.1**	**672.0**	**707.9**	**696.9**	**714.1**	**703.9**	**661.3**	**692.5**	**733.6**	**713.5**	**666.3**		**7627.1**	**7137.9**
TOTAL MAN-MADE FIBER	**713.8**	**715.4**	**759.9**	**746.6**	**761.8**	**755.2**	**709.5**	**744.3**	**790.4**	**767.1**	**714.8**		**8178.8**	**7700.4**
	MAN-MADE FIBER END-OF-MONTH STOCK													
CELLULOSIC														
YARN	17.9	18.2	16.8	15.2	14.7	14.0	14.0	13.3	12.9	12.0	11.6		11.6	14.8
RAYON STAPLE	24.3	26.1	23.8	24.7	25.9	25.1	25.0	21.2	18.2	16.3	18.2		18.2	22.8
TOTAL CELLULOSIC	**42.2**	**44.3**	**40.6**	**39.9**	**40.6**	**39.1**	**39.0**	**34.5**	**31.1**	**28.3**	**29.8**		**29.8**	**37.6**
NONCELLULOSIC														
YARN														
NYLON[d] - INDUSTRIAL[e]	29.2	24.9	26.7	29.0	27.0	25.8	26.5	24.9	22.8	22.2	21.8		21.8	28.8
- CARPET	56.6	55.5	52.3	52.4	48.3	47.7	52.7	49.3	45.2	47.6	60.4		60.4	43.2
- TEXTILE[g]	49.6	49.4	46.5	47.2	47.6	46.8	48.6	47.0	45.7	46.4	48.3		48.3	44.6
POLYESTER - INDUSTRIAL[e]	30.6	30.0	27.8	29.0	28.5	29.4	31.6	28.1	25.2	23.5	24.5		24.5	29.2
- TEXTILE[g]	85.6	88.8	87.6	83.2	80.0	85.7	85.6	85.0	87.2	86.0	82.5		82.5	83.8
OLEFIN[f]	54.7	55.6	54.5	56.3	56.0	54.9	57.0	55.7	53.0	54.1	56.7		56.7	61.4
TOTAL YARN	**306.3**	**304.2**	**295.4**	**297.1**	**287.4**	**290.3**	**302.0**	**290.0**	**279.1**	**279.8**	**294.2**		**294.2**	**291.0**
STAPLE														
NYLON	59.3	53.8	58.7	57.7	56.4	61.5	66.9	61.6	64.4	61.7	68.9		68.9	54.9
ACRYLIC+MODACRYLIC	68.2	67.9	67.8	70.1	71.6	78.2	73.9	70.0	68.7	63.8	66.6		66.6	57.3
POLYESTER	178.0	169.8	162.3	162.4	171.7	161.6	182.1	180.6	164.2	166.5	163.7		163.7	148.7
OLEFIN+VINYON[h]	33.3	32.6	31.0	30.3	30.8	31.9	34.5	32.9	32.5	32.6	32.5		32.5	31.1
TOTAL STAPLE	**338.8**	**324.1**	**319.8**	**320.5**	**330.5**	**333.2**	**357.4**	**345.1**	**329.8**	**324.6**	**331.7**		**331.7**	**292.0**
TOTAL NONCELLULOSIC	**645.1**	**628.3**	**615.2**	**617.6**	**617.9**	**623.5**	**659.4**	**635.1**	**608.9**	**604.4**	**625.9**		**625.9**	**583.0**
TOTAL MAN-MADE FIBER	**687.3**	**672.6**	**655.8**	**657.5**	**658.5**	**662.6**	**698.4**	**669.6**	**640.0**	**632.7**	**655.7**		**655.7**	**620.6**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	13.8	13.1	15.0	13.8	13.4	13.8	10.6	10.8	13.6				117.9	116.8
CARPET CLASS WOOL	0.8	0.8	1.2	1.3	1.3	0.8	1.2	1.4	1.2				10.0	7.7
TOTAL RAW WOOL	14.6	13.9	16.2	15.1	14.7	14.6	11.8	12.2	14.8				127.9	124.5
RAW COTTON	302.3	281.8	341.4	301.8	308.4	328.2	261.6	293.4	394.1	329.6			3142.6	2694.1

a. "Year-to-date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Nylon excludes Aramid.
e. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
f. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
g. Includes low denier industrial nylon and polyester yarn.
h. 1987 data exclude Vinyon.

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The names of U.S. producers of man-made fibers, together with the products made, are listed on pages 250-257. The corresponding list of world producers is on pages 122-150. Monthly U.S. fiber shipments and stock data, appearing in the table "Selected U.S. Monthly Fiber Data," are usually found on the last page of each ***Textile Organon*** issue. In the following index, this appears under the heading "Monthly Data".

Each issue of the ***Textile Organon*** contains one or more principal topics. The following is a brief outline of the major subjects covered in the 1987 issues. The numbers in parentheses are the pages of each month's issue.

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FEBRUARY	Special Feature: "1986 Import/Export Review" (21-36)
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TEXTILE ORGANON

Volume 59, No. 1 ☐ **January 1988**

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Highlights

- Capacity Utilization Review . . . begins on page 4.
- Annual Shipment Summary. . . see page 11.
- Worldwide Net Available Supply. . . begins on page 12.

SHIPMENTS:

In the final month of the year, total man-made fiber shipments were ahead 3.6% over both the previous month and same month in the previous year. For the whole year, the shipments were ahead 6.0% over the previous period.

December shipments of cellulosic yarn were 18.9 million pounds, an increase of 20.4% over November shipments. Acrylic+modacrylic shipments at 51.0 million pounds were up 17.2% over the previous month. However, both fiber types were down for the year to date.

For the whole year, the two biggest percentage gainers were industrial nylon, up 12.0% over the previous year, and polyester staple up 11.6%. Two staple items were the big gainers on a weight basis. Polyester staple shipments were ahead 245.8 million pounds for the year and nylon staple increased 77.3 million pounds. The total shipments of all man-made fiber for the year grew by 503.9 million pounds to reach 8919.0 million pounds.

TABLE 1:
TOTAL U.S. MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

	1987		% CHG	1986	% CHG	YEAR TO DATE		% CHG YTD
ITEM	DEC	NOV	11/87-12/87	DEC	12/86-12/87	1987	1986	1986-1987
CELLULOSIC								
YARN	18.9	15.7	*+20.4*	18.2	*+3.8*	191.7	212.3	*-9.7*
RAYON STAPLE	36.6	32.8	*+11.6*	35.4	*+3.4*	415.5	403.8	*+2.9*
TOTAL CELLULOSIC	**55.5**	**48.5**	***+14.4***	**53.6**	***+3.5***	**607.2**	**616.1**	***-1.4***
NONCELLULOSIC								
YARN+MONOFILAMENTS								
NYLON - INDUSTRIAL	30.4	30.3	*+0.3*	30.9	*-1.6*	373.4	333.4	*+12.0*
- CARPET	71.0	65.3	*+8.7*	70.7	*+0.4*	940.6	898.5	*+4.7*
- TEXTILE[a]	31.0	31.2	*-0.6*	28.5	*+8.8*	378.7	360.5	*+5.0*
POLYESTER - INDUSTRIAL	28.8	27.1	*+6.3*	27.8	*+3.6*	338.8	313.9	*+7.9*
- TEXTILE[a]	67.5	72.4	*-6.8*	72.4	*-6.8*	841.6	855.8	*-1.7*
OLEFIN	100.2	94.7	*+5.8*	97.0	*+3.3*	1127.7	1059.7	*+6.4*
TOTAL YARN	**328.9**	**321.0**	***+2.5***	**327.3**	***+0.5***	**4000.8**	**3821.8**	***+4.7***
STAPLE+TOW+FIBERFILL								
NYLON	66.1	71.4	*-7.4*	76.7	*-13.8*	985.5	908.2	*+8.5*
ACRYLIC+MODACRYLIC	51.0	43.5	*+17.2*	46.2	*+10.4*	593.4	614.1	*-3.4*
POLYESTER	209.2	199.4	*+4.9*	183.8	*+13.8*	2369.2	2123.4	*+11.6*
OLEFIN+VINYON[b]	29.9	30.8	*-2.9*	27.1	*+10.3*	362.9	331.5	*+9.5*
TOTAL STAPLE	**356.2**	**345.1**	***+3.2***	**333.8**	***+6.7***	**4311.0**	**3977.2**	***+8.4***
TOTAL NONCELLULOSIC	**685.1**	**666.1**	***+2.9***	**661.1**	***+3.6***	**8311.8**	**7799.0**	***+6.6***
TOTAL MAN-MADE FIBER	**740.6**	**714.6**	***+3.6***	**714.7**	***+3.6***	**8919.0**	**8415.1**	***+6.0***

a. Includes low denier industrial yarn.

b. 1987 data exclude Vinyon.

Textile Organon

A Monthly Review

JANUARY 1988

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TEXTILE ECONOMICS BUREAU, INC.
President
Rosemarie D. Frick

Editor, Textile Organon
David S. Morey

Publishing Headquarters:
Textile Economics Bureau, Inc.
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Roseland, NJ 07068
U.S.A.
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U.S. SHIPMENTS OF MAN-MADE FIBER INCREASED

In 1987, total shipments of man-made fiber increased 6.0% or 503.9 million pounds more than in 1986. In the three years since 1984, the total yearly shipments increased by 864.3 million pounds. The three largest quantity gainers since 1984 were olefin yarn up 385.6 million pounds, polyester staple up 176.8 million pounds and nylon staple up 154.2 million pounds. Please note that a portion of the reported growth in olefin fiber is due to the inclusion of new olefin producers in the data starting in 1985. (See Table 8)

U.S. PRODUCTION OF MAN-MADE FIBER INCREASED

In 1987, total U.S. production of noncellulosic and cellulosic fibers increased 5.4% to 8,903 million pounds, or 456 million pounds more than 1986 production. Of the 1987 production, 93.2% was noncellulosic and 6.8% was cellulosic. (See Table 4)

U.S. CAPACITY UTILIZATION RATE REACHES 88.5%

Total U.S. producing capacity for man-made fiber increased 1.4% in 1987, to reach 10,059 million pounds. The 5.4% increase in production therefore increased the total capacity utilization rate to 88.5% . The capacity utilization rate for noncellluosic fibers was 88.7% and for cellulosic fibers 85.3%. (See Table 2)

1986 WORLDWIDE MILL CONSUMPTION OF FIBERS AT 71.9 BILLION POUNDS

In selected countries worldwide, mill consumption in 1986 reached 34.0 billion pounds of man-made fiber, 34.1 billion pounds of cotton and 3.8 billion pounds of wool, for a total of 71.9 billion pounds of fiber. The U.S. was the leading consumer of man-made fiber, and used 20% of the total. The U.S.S.R. and China, PRC together accounted for 39% of the cotton mill consumption, and West Europe accounted for 29% of the wool. (See Table 10)

CAPACITY UTILIZATION REVIEW

***Editor's Note** : The capacity utilization rates are based on production and capacity sizes. Thus, a rate can be raised by an increase in production, a decrease in capacity or a combination of these two.*

All major fiber categories, except cellulosic yarn, have increased their capacity utilization rates in 1987, compared with 1977. In the case of polyester staple+tow, the increase was due to production growing faster than capacity. In the case of nylon and polyester textile yarns, the increases were caused by capacity reductions greater than production reductions.

The total capacity for all noncellulosic fibers is virtually the same in 1987 as in 1977, but increases in production have raised the total capacity utilization rate to 88.7%. Total cellulosic fibers have a capacity utilization rate of 85.3%, because capacity in the ten year period was reduced more than the reduction in production.

This report presents data in six tables and four graphs: Review of Production, Producing Capacity & Capacity Utilization; Summary of Annual Production (1977-1987); Production of Noncellulosic & Cellulosic Fibers as a Precentage of Total Man-Made Fiber Production; Producing Capacity of Noncellulosic & Cellulosic Fibers as a Percentage of Total Man-Made Fiber Capacity; Summary of Producing Capacities (1977-1988); and Summary of Capacity Utilization Rates (1977-1987). Also included are graphs showing the 1977-1987 trends in the capacities and production of Nylon Carpet Yarn, Polyester Textile Yarn and Polyester Staple+Tow.

The Review of Production, Producing Capacity & Capacity Utilization at the bottom of this page, ties the three major components of this report - production, producing capacity and capacity utilization - into one table for easy reference. The page opposite depicts this summary graphically.

For this report, Textile Economics Bureau **November** capacity survey data are used as the annual capacity figures. The tables on pages 6 & 7 show the production data for 1977-1987, the tables on pages 7 & 8 show the producing capacities, and the table on page 9 shows the capacity utilization rates for the various individual and generic fiber types.

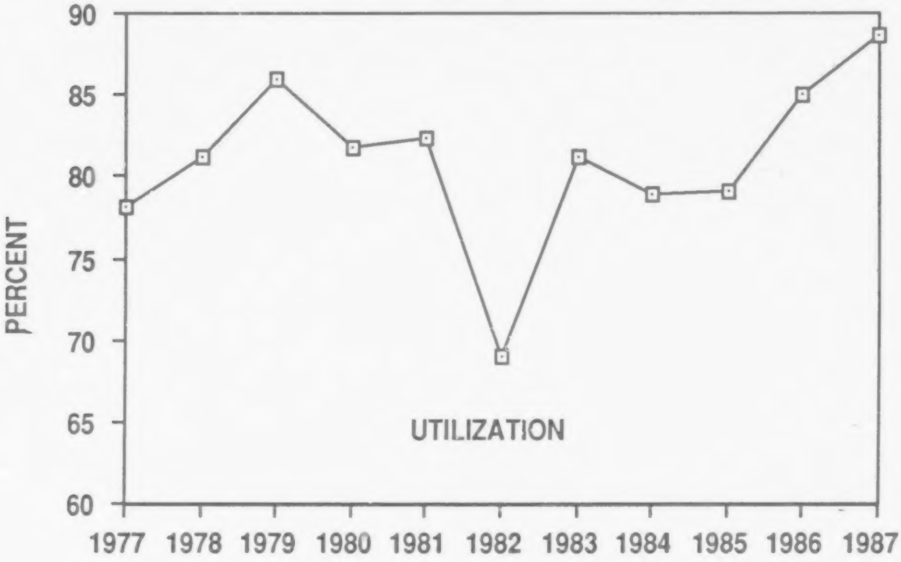
TABLE 2:
REVIEW OF PRODUCTION, PRODUCING CAPACITY & CAPACITY UTILIZATION[a]

MILLION POUNDS & *PERCENT*

FIBER TYPE	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
NONCELLULOSIC											
PRODUCTION	7312	7768	8418	7874	7982	6442	7534	7473	7564	7828	8298
CAPACITY	9352	9555	9784	9627	9696	9334	9274	9460	9558	9207	9350
UTILIZATION (%)	*78.2*	*81.3*	*86.0*	*81.8*	*82.3*	*69.0*	*81.2*	*79.0*	*79.1*	*85.0*	*88.7*
CELLULOSIC											
PRODUCTION	888	905	930	806	770	584	640	628	558	619	605
CAPACITY	1063	1086	1109	909	898	895	845	845	784	709	709
UTILIZATION (%)	*83.5*	*83.3*	*83.9*	*88.7*	*85.7*	*65.3*	*75.7*	*74.3*	*71.2*	*87.3*	*85.3*
TOTAL MAN-MADE FIBERS											
PRODUCTION	8200	8673	9348	8680	8752	7026	8174	8101	8122	8447	8903
CAPACITY	10415	10641	10893	10536	10594	10229	10119	10305	10342	9916	10059
UTILIZATION (%)	*78.7*	*81.5*	*85.8*	*82.4*	*82.6*	*68.7*	*80.8*	*78.6*	*78.5*	*85.2*	*88.5*

a. Data on Glass Fiber are no longer available due to company disclosure.
The series including Glass Fiber was last published in the January 1984 issue.

GRAPH 1:
NONCELLULOSIC FIBER PRODUCTION, CAPACITY & CAPACITY UTILIZATION



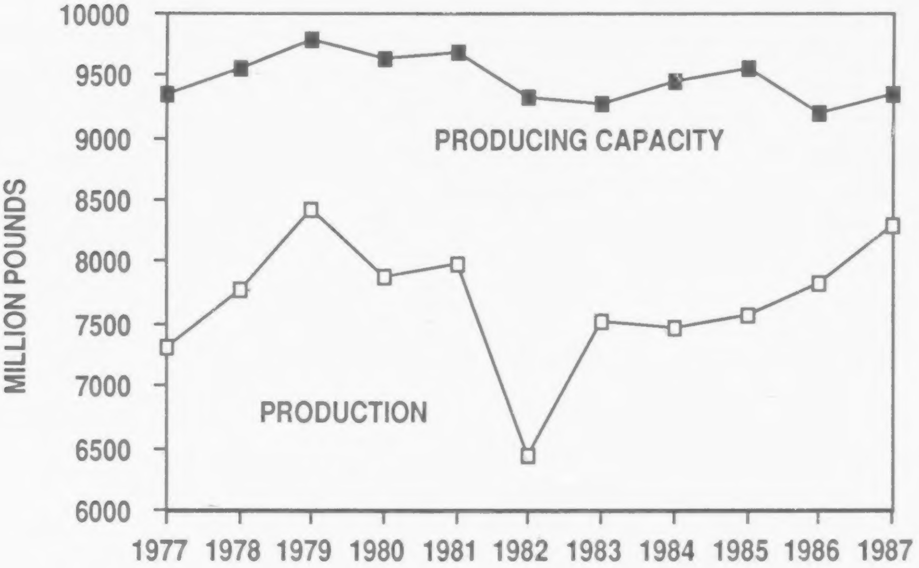


TABLE 3:
SUMMARY OF ANNUAL PRODUCTION
MILLION POUNDS

	CELLULOSIC FIBERS						
	FILAMENT YARN+MONOFIL			STAPLE+TOW			TOTAL CELL.
YEAR	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	
1977	71	282	353	527	8	535	888
1978	62	301	363	535	7	542	905
1979	57	317	374	549	7	556	930
1980	47	309	356	443	7	450	806
1981	48	257	305	461	4	465	770
1982	33	195	228	355	1	356	584
1983	36	228	264	375	1	376	640
1984	41	198	239	389	+	389	628
1985	b	b	205	b	b	353	558
1986	b	b	215	b	b	404	619
1987	b	b	191	b	b	414	605

	NONCELLULOSIC FIBERS														
	YARN+MONOFILAMENTS									STAPLE+TOW					TOTAL NON-CELL.
	NYLON+ARAMID [a]				POLYESTER				TOTAL YARN	NYLON+ ARAMID [a]	POLY-ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON [c]	TOTAL STAPLE	
YEAR	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL	OLEFIN							
1977	401	457	654	1512	360	1232	1592	554	3658	814	2050	709	81	3654	7312
1978	438	503	713	1654	355	1209	1564	597	3815	896	2236	726	95	3953	7768
1979	499	528	755	1782	373	1342	1715	639	4136	939	2462	761	120	4282	8418
1980	437	466	728	1631	286	1176	1462	632	3725	727	2527	779	116	4149	7874
1981	410	461	710	1581	309	1257	1566	643	3790	752	2607	691	142	4192	7982
1982	315	354	573	1242	292	921	1213	585	3040	685	1955	624	138	3402	6442
1983	315	415	762	1492	299	1060	1359	716	3567	926	2184	671	186	3967	7534
1984	379	394	804	1577	316	884	1200	748	3525	835	2192	671	250	3948	7473
1985	343	353	819	1515	294	1027	1321	954	3790	828	2020	631	295	3774	7564
1986	339	360	907	1606	319	854	1173	1058	3837	908	2132	616	335	3991	7828
1987	364	381	951	1696	337	842	1179	1118	3993	992	2362	591	360	4305	8298

a. 1983-1987 exclude Aramid.

b. Detail withheld due to company disclosure.

c. Data for Vinyon not included in 1987.

Rayon yarn includes industrial (high tenacity) yarn and textile (regular+intermediate tenacity) yarn+monofilaments.

Acetate includes diacetate and triacetate. The acetate staple+tow data do not include tow for cigarette filtration.

Olefin includes polypropylene yarn+monofilaments+spunbonded+film fiber and polyethylene monofilaments+film fiber.

For the purposes of this report, production data for miscellaneous fibers, such as saran and spandex, are not included.

TABLE 4:
PRODUCTION OF NONCELLULOSIC & CELLULOSIC FIBERS[a] AS A PERCENTAGE OF TOTAL MAN-MADE FIBER PRODUCTION
MILLION POUNDS & *PERCENT*

YEAR	NON-CELLULOSIC	%	CELLULOSIC	%	TOTAL MAN-MADE FIBER	%
1977	7312	*89.2*	888	*10.8*	8200	*100.0*
1978	7768	*89.6*	905	*10.4*	8673	*100.0*
1979	8418	*90.1*	930	*9.9*	9348	*100.0*
1980	7874	*90.7*	806	*9.3*	8680	*100.0*
1981	7982	*91.2*	770	*8.8*	8752	*100.0*
1982	6442	*91.7*	584	*8.3*	7026	*100.0*
1983	7534	*92.2*	640	*7.8*	8174	*100.0*
1984	7473	*92.2*	628	*7.8*	8101	*100.0*
1985	7564	*93.1*	558	*6.9*	8122	*100.0*
1986	7828	*92.7*	619	*7.3*	8447	*100.0*
1987	8298	*93.2*	605	*6.8*	8903	*100.0*

a. Data on Glass Fiber are no longer available due to company disclosure.
The series including Glass Fiber was last published in the January 1984 issue.

TABLE 5:
PRODUCING CAPACITY OF NONCELLULOSIC & CELLULOSIC FIBERS AS A PERCENTAGE OF TOTAL MAN-MADE FIBER CAPACITY
MILLION POUNDS & *PERCENT*

YEAR	NON-CELLULOSIC	%	CELLULOSIC	%	TOTAL MAN-MADE FIBER	%
1977	9352	*89.8*	1063	*10.2*	10415	*100.0*
1978	9555	*89.8*	1086	*10.2*	10641	*100.0*
1979	9784	*89.8*	1109	*10.2*	10893	*100.0*
1980	9627	*91.4*	909	*8.6*	10536	*100.0*
1981	9696	*91.5*	898	*8.5*	10594	*100.0*
1982	9334	*91.3*	895	*8.7*	10229	*100.0*
1983	9274	*91.6*	845	*8.4*	10119	*100.0*
1984	9460	*91.8*	845	*8.2*	10305	*100.0*
1985	9558	*92.4*	784	*7.6*	10342	*100.0*
1986	9207	*92.8*	709	*7.2*	9916	*100.0*
1987	9350	*93.0*	709	*7.0*	10059	*100.0*

TABLE 6:
SUMMARY OF PRODUCING CAPACITIES
MILLION POUNDS

	CELLULOSIC FIBERS						TOTAL CELL.
	FILAMENT YARN+MONOFIL			STAPLE+TOW			
YEAR[a]	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	
1977	85	315	400	655	8	663	1063
1978	83	330	413	665	8	673	1086
1979	75	355	430	671	8	679	1109
1980	63	324	387	514	8	522	909
1981	52	332	384	509	5	514	898
1982	63	318	381	510	4	514	895
1983	63	268	331	510	4	514	845
1984	63	268	331	510	4	514	845
1985	b	b	269	510	5	515	784
1986	b	b	244	b	b	465	709
1987	b	b	244	b	b	465	709

	NONCELLULOSIC FIBERS														TOTAL NON-CELL.	GLASS FIBER
	YARN+MONOFILAMENTS									STAPLE+TOW						
	NYLON+ARAMID[c]				POLYESTER				TOTAL YARN	NYLON+ ARAMID[c]	POLY-ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON[d]	TOTAL STAPLE		
YEAR[a]	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL	OLEFIN								
1977	523	558	829	1910	443	1698	2141	907	4958	939	2470	869	116	4394	9352	1002
1978	510	565	908	1983	443	1643	2086	915	4984	1023	2554	865	129	4571	9555	1118
1979	513	579	950	2042	443	1699	2142	922	5106	1020	2673	839	146	4678	9784	1305
1980	515	551	910	1976	400	1637	2037	900	4913	991	2759	830	134	4714	9627	1473
1981	514	553	893	1960	316	1481	1797	989	4746	1010	2839	835	266	4950	9696	1561
1982	474	513	925	1912	338	1265	1603	1038	4553	978	2700	832	271	4781	9334	1718
1983	440	494	907	1841	337	1170	1507	1099	4447	1017	2704	826	280	4827	9274	1618
1984	437	470	926	1833	342	1162	1504	1142	4479	1054	2784	807	336	4981	9460	1743
1985	437	466	965	1868	374	1097	1471	1329	4668	1067	2785	631	407	4890	9558	1769
1986	435	398	964	1797	401	1021	1422	1326	4545	1077	2491	637	457	4662	9207	1763
1987	418	404	1005	1827	399	929	1328	1402	4557	1137	2522	652	482	4793	9350	1642

a. **All annual capacity data are as of November of that year.**

b. Detail withheld due to disclosure.

c. 1983-1987 exclude Aramid.

d. Data for Vinyon not included in 1987.

The data do not include acetate tow for cigarette filtration.

IND means industrial yarn and monofil, i.e., coarser than 500 denier with an Instron tenacity of 7 grams or more per denier.

CARP means bulked continuous filament yarn for carpets.

TEX means yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

Olefin includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles and film fiber used for decorative or tying ribbon, etc. Olefin monofil includes the circular and rectangular ribbon cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated film.

For the purposes of this report, production data for miscellaneous fibers, such as saran and spandex, are not included.

TABLE 7:
SUMMARY OF CAPACITY UTILIZATION RATES
PERCENT (%)

	CELLULOSIC FIBERS						
	FILAMENT YARN+MONOFIL			STAPLE+TOW			TOTAL CELL.
YEAR	RAYON	ACETATE	TOTAL	RAYON	ACETATE	TOTAL	
1977	83.5	89.5	88.3	80.5	100.0	80.7	**83.5**
1978	74.7	91.2	87.9	80.5	87.5	80.5	**83.3**
1979	76.0	89.3	87.0	81.8	87.5	81.9	**83.9**
1980	74.6	95.4	92.0	86.2	87.5	86.2	**88.7**
1981	92.3	77.4	79.4	90.6	80.0	90.5	**85.7**
1982	52.4	61.3	59.8	69.6	25.0	69.3	**65.3**
1983	57.1	85.1	79.8	73.5	25.0	73.2	**75.7**
1984	65.1	73.9	72.2	b	b	75.7	**74.3**
1985	b	b	76.2	b	b	68.5	**71.2**
1986	b	b	88.1	b	b	86.9	**87.3**
1987	b	b	78.3	b	b	89.0	**85.3**

	NONCELLULOSIC FIBERS [c]														
	YARN+MONOFILAMENTS									STAPLE+TOW					TOTAL NON-CELL.
	NYLON+ARAMID [a]				POLYESTER										
YEAR	IND	TEX	CARP	TOTAL	IND	TEX	TOTAL	OLEFIN	TOTAL YARN	NYLON+ ARAMID [a]	POLY-ESTER	ACRYLIC+ MODACR	OLEFIN+ VINYON [d]	TOTAL STAPLE	
1977	76.7	81.9	78.9	79.2	81.3	72.6	74.4	61.1	73.8	86.7	83.0	81.6	69.8	83.2	**78.2**
1978	85.9	89.0	78.5	83.4	80.1	73.6	75.0	65.2	76.5	87.6	87.5	83.9	73.6	86.5	**81.3**
1979	97.3	91.2	79.5	87.3	84.2	79.0	80.1	69.3	81.0	92.1	92.1	90.7	82.2	91.5	**86.0**
1980	84.9	84.6	80.0	82.5	71.5	71.8	71.8	70.2	75.8	73.4	91.6	93.9	86.6	88.0	**81.8**
1981	79.8	83.4	79.5	80.7	97.8	84.9	87.1	65.0	79.9	74.5	91.8	82.8	53.4	84.7	**82.3**
1982	66.5	69.0	61.9	65.0	86.4	72.8	75.7	56.4	66.8	70.0	72.4	75.0	50.9	71.2	**69.0**
1983	71.6	84.0	84.0	81.0	88.7	90.6	90.2	65.2	80.2	91.1	80.8	81.2	66.4	82.2	**81.2**
1984	86.7	83.8	86.8	86.0	92.4	76.1	79.8	65.5	78.7	79.2	78.7	83.1	74.4	79.3	**79.0**
1985	78.5	75.8	84.9	81.1	78.6	93.6	89.8	71.8	81.2	77.6	72.5	100.0	72.5	77.2	**79.1**
1986	77.9	90.5	94.1	89.4	79.6	83.6	82.5	79.8	84.4	84.3	85.6	96.7	73.3	85.6	**85.0**
1987	87.1	94.3	94.6	92.8	84.5	90.6	88.8	79.7	87.6	87.2	93.7	90.6	74.7	89.8	**88.7**

All percentages are tabulated using the tables on pages 6 and 8.

a. 1983-1987 exclude Aramid.

b. Detail withheld due to company disclosure.

c. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the January 1984 issue.

d. Data for Vinyon not included in 1987.

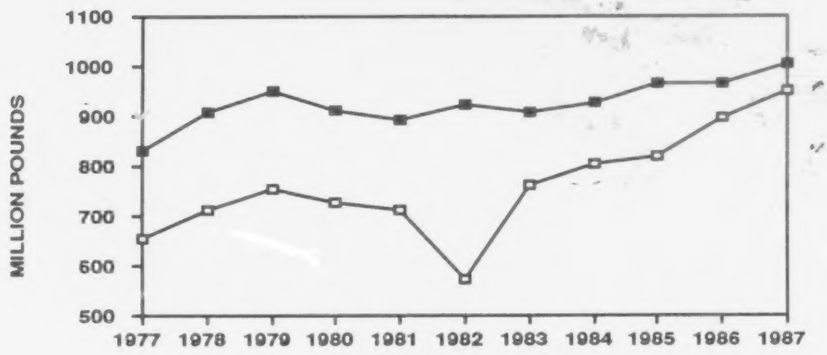
NOVEMBER 1987 DIRECTORY OF U.S. MAN-MADE FIBER PRODUCERS CORRECTION :

Hanover Mills, Inc. on page 252, Universal Polymer Products Corporation on page 253 and Guilford Mills, Gainesville Division on page 252 of the ***November Textile Organon*** should all be revised to read:

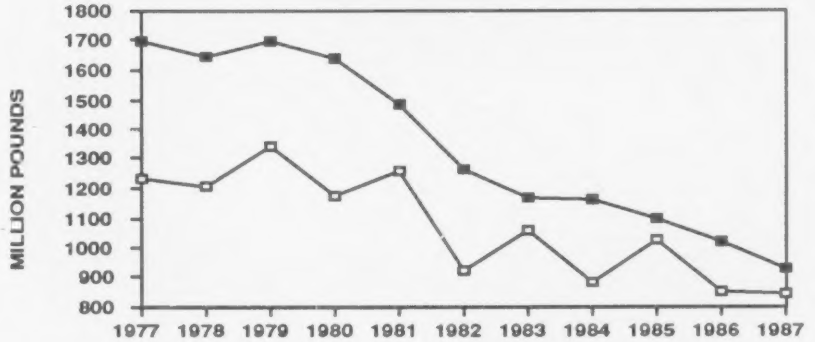
HANOVER FIBERS DIVISION,
GUILFORD MILLS, INC.
Executive Office: 4925 West Market Street,
Greensboro, NC 27402
Regional Sales Office: 200 Dickens Road,
P.O. Box 788, Fuquay-Varina, N.C.
27526

Nylon 6	Gainesville, GA (monofil)
Polyester	Fuquay-Varina, N.C. (yarn+monofil)

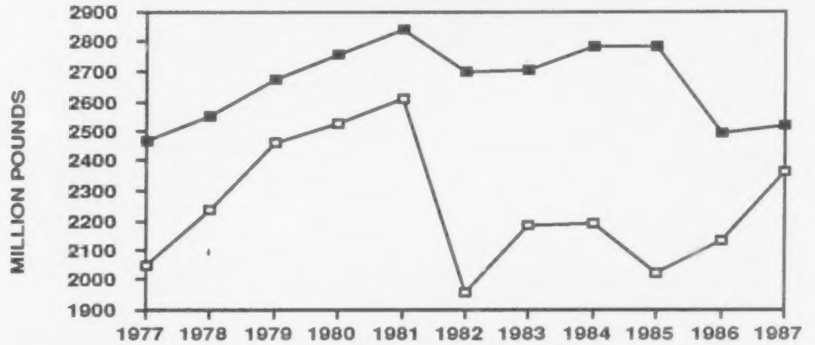
GRAPH 2:
NYLON CARPET YARN CAPACITY & PRODUCTION
MILLION POUNDS



GRAPH 3:
POLYESTER TEXTILE YARN CAPACITY & PRODUCTION [a]
MILLION POUNDS



GRAPH 4:
POLYESTER STAPLE+TOW CAPACITY & PRODUCTION
MILLION POUNDS



a. Includes low denier industrial.

-■- CAPACITY
-□- PRODUCTION

GRAPH 5:
TOTAL MAN-MADE FIBER PRODUCTION & SHIPMENTS
MILLION POUNDS

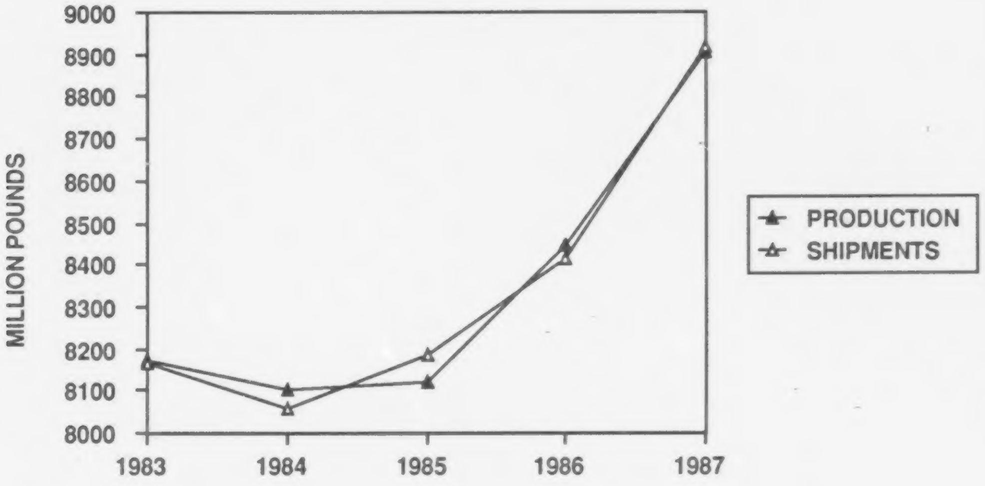


TABLE 8:
TOTAL MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1987	1986	% CHG. 86-87	1985	% CHG. 85-87	1984	% CHG. 84-87
CELLULOSIC							
YARN	191.7	212.3	*-9.7*	210.1	*-8.8*	236.5	*-18.9*
RAYON STAPLE	415.5	403.8	*+2.9*	358.7	*+15.8*	384.0	*+8.2*
TOTAL CELLULOSIC	**607.2**	**616.1**	***-1.4***	**568.8**	***+6.8***	**620.5**	***-2.1***
NONCELLULOSIC							
YARN+MONOFILAMENTS							
NYLON - INDUSTRIAL	373.4	333.4	*+12.0*	345.1	*+8.2*	375.1	*-0.5*
- CARPET	940.6	898.5	*+4.7*	835.4	*+12.6*	794.9	*+18.3*
- TEXTILE [a]	378.7	360.5	*+5.0*	355.3	*+6.6*	387.4	*-2.2*
POLYESTER - INDUSTRIAL	338.8	313.9	*+7.9*	292.1	*+16.0*	313.1	*+8.2*
- TEXTILE [a]	841.6	855.8	*-1.7*	1020.4	*-17.5*	885.0	*-4.9*
OLEFIN	1127.7	1059.7	*+6.4*	951.1	*+18.6*	742.1	*+52.0*
TOTAL YARN	**4000.8**	**3821.8**	***+4.7***	**3799.4**	***+5.3***	**3497.6**	***+14.4***
STAPLE+TOW+FIBERFILL							
NYLON	985.5	908.2	*+8.5*	843.6	*+16.8*	831.3	*+18.5*
ACRYLIC+MODACRYLIC	593.4	614.1	*-3.4*	643.8	*-7.8*	666.2	*-10.9*
POLYESTER	2369.2	2123.4	*+11.6*	2038.6	*+16.2*	2192.4	*+8.1*
OLEFIN+VINYON [b]	362.9	331.5	*+9.5*	288.2	*+25.9*	246.7	*+47.1*
TOTAL STAPLE	**4311.0**	**3977.2**	***+8.4***	**3814.2**	***+13.0***	**3936.6**	***+9.5***
TOTAL NONCELLULOSIC	**8311.8**	**7799.0**	***+6.6***	**7613.6**	***+9.2***	**7434.2**	***+11.8***
TOTAL MAN-MADE FIBER	**8919.0**	**8415.1**	***+6.0***	**8182.4**	***+9.0***	**8054.7**	***+10.7***

a. Includes low denier industrial yarn.
b. 1987 data exclude Vinyon.

TABLE 9:
1986 MAN-MADE FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY EXCEPT OLEFIN & TEXTILE GLASS

MILLION POUNDS

COUNTRY & AREA	CELLULOSIC								NONCELLULOSIC								TOTAL MAN-MADE FIBERS					
	YARN				STAPLE+TOW				YARN				STAPLE+TOW							CELL	NC	NET
	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	SPUN	SPUN	AVAIL
WESTERN EUROPE																						
AUSTRIA	NA	9.1	0.1	NA	NA	8.3	152.2	NA	0	45.0	1.9	43.1	33.1	48.2	39.5	41.8	304.3	110.6	193.7	-37.3	-13.5	170.4
BENELUX	NA	28.9	84.0	NA	NA	101.3	9.9	NA	160.9	304.6	248.0	217.5	75.0	244.2	126.1	193.1	324.1	679.0	468.0	+29.9	+55.9	620.9
FINLAND	NA	1.6	+	NA	NA	5.7	114.4	NA	1.1	24.9	0.3	25.7	0	30.8	0.2	30.6	122.4	63.0	114.9	+1.3	+7.9	79.7
FRANCE	NA	51.6	21.2	NA	NA	52.9	27.1	NA	134.9	186.3	118.1	203.1	233.7	261.7	153.0	342.4	414.9	552.5	319.4	+14.1	+13.4	675.5
GERMANY, FED. REP.	NA	56.2	77.3	NA	NA	99.4	80.5	NA	765.0	194.4	568.9	390.5	879.6	298.3	732.6	445.3	1911.4	648.3	1459.3	+0.4	-18.0	1082.8
GREECE	NA	1.3	11.6	NA	NA	14.8	0.1	NA	19.8	14.5	11.4	22.9	22.0	49.9	10.7	61.2	59.2	80.5	33.8	-0.9	+5.3	110.3
IRELAND	0	1.6	0.1	1.5	0	7.3	0.1	7.2	28.7	20.5	38.7	10.5	134.5	12.3	80.6	66.2	163.2	41.7	119.5	+2.5	+3.0	90.9
ITALY/MALTA	NA	58.2	14.0	NA	NA	103.1	3.8	NA	381.4	156.2	253.0	284.6	873.0	361.9	586.3	648.6	1320.5	679.4	857.1	+1.4	-110.8	1033.4
NORWAY	NA	0.3	+	NA	0	5.7	0.2	5.5	2.2	10.9	1.9	11.2	0	9.5	+	9.5	2.2	26.4	2.1	+0.5	+2.7	29.7
PORTUGAL	NA	5.2	0.7	NA	NA	22.1	+	NA	0	48.8	3.3	45.5	121.3	25.0	9.9	136.4	122.8	101.1	13.9	-0.7	-13.3	196.0
SPAIN	NA	16.0	5.1	NA	NA	34.5	23.3	NA	183.0	56.6	29.3	210.3	410.1	145.2	133.0	422.3	672.5	252.3	190.7	-0.6	-47.1	686.4
SWEDEN	NA	3.4	0.6	NA	NA	8.1	47.7	NA	0	27.8	1.0	26.8	0	29.1	0.3	28.8	48.7	68.4	49.6	+1.0	+8.0	76.5
SWITZERLAND	0	4.7	1.1	3.6	0	17.1	0.1	17.0	149.9	20.7	158.1	12.5	59.5	32.1	73.8	17.8	209.4	74.6	233.1	-1.5	-2.4	47.0
TURKEY	NA	1.4	0.1	NA	NA	8.1	+	NA	132.3	42.5	15.9	158.9	372.6	50.0	69.3	353.3	522.5	102.0	85.3	+0.8	-20.3	519.7
UNITED KINGDOM	NA	25.2	37.0	NA	NA	65.2	97.2	NA	191.8	257.7	143.5	306.0	286.6	218.9	179.6	325.9	606.3	567.0	457.3	+4.8	+97.7	818.5
TOTAL WESTERN EUROPE	418.0	264.7	252.9	429.8	734.4	553.6	556.6	731.4	2151.0	1411.4	1593.3	1969.1	3501.0	1817.1	2194.9	3123.2	6804.4	4046.8	4597.7	+15.7	-31.5	6237.7
EASTERN EUROPE																						
ALBANIA	0	0	0	0	0	0	0	0	0.9	0.3	0	1.2	0	0.3	0	0.3	0.9	0.6	0	+	+0.2	1.7
BULGARIA	9.3	+	0.1	9.2	83.8	4.2	8.7	79.3	88.2	3.5	0.1	91.6	105.8	9.3	0.9	114.2	287.1	17.0	9.8	+	+0.3	294.6
CZECHOSLOVAKIA	46.5	0.1	1.8	44.8	89.3	0.2	4.2	85.3	154.3	5.2	11.6	147.9	112.4	7.4	3.9	115.9	402.5	12.9	21.5	-0.1	+2.8	396.6
GERMANY, DEM. REP.	78.5	1.4	0.4	79.5	201.7	5.3	25.3	181.7	169.8	4.4	2.9	171.3	203.9	11.1	11.3	203.7	653.9	22.2	39.9	+3.3	+12.7	652.2
HUNGARY	0	1.8	0.1	1.7	15.4	2.0	4.1	13.3	21.4	20.6	1.4	40.6	38.6	31.0	0.4	69.2	75.4	55.4	6.0	+0.4	+2.1	127.3
POLAND	45.6	+	0	45.6	138.9	3.6	0.2	142.3	211.9	9.6	1.8	219.7	173.1	12.0	0.5	184.6	569.5	25.2	2.5	+	+3.4	595.6
ROMANIA	19.8	+	1.7	18.1	121.3	0.6	6.2	115.7	132.3	0.3	7.2	125.4	332.9	0	39.9	293.0	606.3	0.9	55.0	0	-5.5	546.7
U.S.S.R.	696.7	4.9	0.1	701.5	771.6	23.2	+	794.8	866.0	51.8	0.1	917.7	780.4	47.1	3.1	824.4	3114.7	127.0	3.3	+	+7.0	3245.4
YUGOSLAVIA	33.3	0.3	4.3	29.3	123.5	1.1	20.9	103.7	103.6	21.3	8.3	116.6	176.4	28.7	39.9	165.2	436.8	51.4	73.4	-6.3	-2.3	406.2
TOTAL EASTERN EUROPE	929.7	8.5	8.5	929.7	1545.5	40.2	69.6	1516.1	1748.4	117.0	33.4	1832.0	1923.5	146.9	99.9	1970.5	6147.1	312.6	211.4	-2.7	+20.7	6266.3
TOTAL EUROPE	1347.7	273.2	261.4	1359.5	2279.9	593.8	626.2	2247.5	3899.4	1528.4	1626.7	3801.1	5424.5	1964.0	2294.8	5093.7	12951.5	4359.4	4809.1	+13.0	-10.8	12504.0
U.S.A.	214.9	17.0	20.2	211.7	404.1	17.4	32.6	388.9	2778.2	121.8	200.9	2699.1	3656.5	183.0	239.4	3600.1	7053.7	339.2	493.1	+1.5	+6.6	6907.9
OTHER AMERICAS																						
ARGENTINA	4.4	0.2	0	4.6	7.9	0.3	0	8.2	67.7	0.9	0.3	68.3	53.8	2.3	0	56.1	133.8	3.7	0.3	0	0	137.2
BOLIVIA	0	0	0	0	0	0	0	0	0	0.4	0	0.4	0	2.1	0	2.1	0	2.5	0	0	0	2.5
BRAZIL	37.0	4.6	8.9	32.7	74.1	0.6	14.0	60.7	302.7	5.8	3.4	305.1	225.3	2.5	11.7	216.1	639.1	13.5	38.0	0	-10.9	603.7
CANADA	19.4	28.3	21.0	26.7	64.2	5.2	44.9	24.5	166.0	129.1	43.3	251.8	131.0	100.9	19.3	212.6	380.6	263.5	128.5	+18.0	+15.2	548.8
CHILE	2.9	0.1	0.3	2.7	8.6	2.2	0	10.8	8.2	0.9	0	9.1	5.1	25.6	0.2	30.5	24.8	28.8	0.5	0	0	53.1
COLOMBIA	4.0	0.2	0	4.2	0	4.4	0	4.4	85.3	1.4	0.3	86.4	28.7	17.0	0	45.7	118.0	23.0	0.3	0	0	140.7
COSTA RICA	0	0	0	0	0	0	0	0	9.3	6.5	8.8	7.0	0	1.7	0.1	1.6	9.3	8.2	8.9	0	0	8.6
CUBA	5.5	0.2	0.1	5.6	7.7	+	0	7.7	0	1.2	0	1.2	0	+	0.2	0	13.2	1.4	0.3	0	0	14.3
ECUADOR	0	4.6	0	4.6	0	0.9	0	0.9	11.0	13.2	0	24.2	0	8.7	0	8.7	11.0	27.4	0	0	0	38.4
MEXICO	27.1	0.4	2.7	24.8	0	10.8	5.2	5.6	337.7	3.9	83.3	258.3	325.8	15.3	93.2	247.9	690.6	30.4	184.4	0	-14.2	522.4
PERU	3.7	+	0	3.7	0	0.7	0	0.7	29.8	4.3	0	34.1	75.2	0.8	0	76.0	108.7	5.8	0	0	-0.7	113.8
URUGUAY	2.2	0	+	2.2	0	5.5	0	5.5	4.9	0.3	0	5.2	9.7	3.5	3.2	10.0	16.8	9.3	3.2	0	0	22.9
VENZUELA	4.9	0.1	0	5.0	0	15.1	0	15.1	25.6	3.0	0	28.6	14.3	6.3	0	20.6	44.8	24.5	0	0	0	69.3
TOTAL OTHER AMERICAS	111.1	38.7	33.0	116.8	162.5	45.7	64.1	144.1	1048.2	170.9	139.4	1079.7	868.9	186.7	127.9	927.7	2190.7	442.0	364.4	+18.0	-10.6	2275.7

TABLE 9:
1986 MAN-MADE FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY EXCEPT OLEFIN & TEXTILE GLASS *(CONTINUED)*

MILLION POUNDS

	CELLULOSIC								NONCELLULOSIC								TOTAL MAN-MADE FIBERS					
	YARN				STAPLE+TOW				YARN				STAPLE+TOW							CELL	NC	NET
COUNTRY & AREA	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	SPUN	SPUN	AVAIL
JAPAN	235.0	2.0	94.3	142.7	560.4	0.4	197.4	363.4	1340.8	53.3	231.1	1163.0	1659.6	37.5	655.8	1041.3	3795.8	93.2	1178.6	-7.0	-122.4	2581.0
CHINA, PRC	191.8	37.1	+	228.9	286.6	86.5	0	373.1	352.7	97.6	0.2	450.1	1479.3	448.3	0.2	1927.4	2310.4	669.5	0.4	-13.8	-4.9	2960.8
OTHER ASIA																						
BANGLADESH	6.0	0	0	6.0	2.4	2.6	0	5.0	0.9	0.8	0	1.7	0	3.7	0	3.7	9.3	7.1	0	0	0	16.4
INDIA	109.8	6.5	1.8	114.5	190.3	10.1	0	200.4	304.2	13.7	0	317.9	169.3	24.8	0.8	193.3	773.6	55.1	2.6	0	0	826.1
INDONESIA	0	21.1	0	21.1	86.6	2.8	0	89.4	180.1	29.3	3.9	205.5	187.4	62.2	0	249.6	454.1	115.4	3.9	-4.1	+1.8	563.3
KOREA, REP. OF	30.6	28.2	6.8	52.0	0	72.6	0.1	72.5	961.4	37.2	179.2	819.4	938.9	90.9	123.9	905.9	1930.9	228.9	310.0	+3.9	-121.8	1731.9
MALAYSIA	0	0.3	+	0.3	0	4.9	+	4.9	0	1.1	0.1	1.0	86.0	19.1	5.5	99.6	86.0	25.4	5.6	-0.2	-9.3	96.3
PAKISTAN	7.1	4.1	0.1	11.1	0	42.7	+	42.7	40.1	16.7	0	56.8	53.8	34.4	0.1	88.1	101.0	97.9	0.2	-0.1	0	198.6
PHILIPPINES	0	0.5	0	0.5	0	39.6	0	39.6	46.3	14.7	0	61.0	33.1	52.0	0	85.1	79.4	106.8	0	+0.1	+6.8	193.1
SRI LANKA	0	0.1	0	0.1	0	3.2	0	3.2	2.9	0.8	0	3.7	0	2.0	0.1	1.9	2.9	6.1	0.1	0	0	8.9
TAIWAN	6.2	3.9	3.9	6.2	258.2	13.4	4.8	266.8	1335.1	50.2	450.4	934.9	1381.2	142.6	426.4	1097.4	2980.7	210.1	885.5	-6.1	-171.3	2127.9
THAILAND	0	1.0	0	1.0	41.9	1.7	0	43.6	88.2	2.6	0.9	89.9	125.7	14.2	0.1	139.8	255.8	19.5	1.0	-2.1	-2.3	269.9
TOTAL OTHER ASIA	159.7	65.7	12.6	212.8	579.4	193.6	4.9	768.1	2959.2	167.1	634.5	2491.8	2975.4	445.9	556.9	2864.4	6673.7	872.3	1208.9	-8.6	-296.1	6032.4
MIDDLE EAST, AFRICA & OCEANIA																						
AUSTRALIA/N.Z.	0	2.6	0	2.6	0	4.9	0	4.9	30.9	30.8	0	61.7	2.2	24.8	1.1	25.9	33.1	63.1	1.1	0	0	95.1
EGYPT	15.4	4.8	0	20.2	10.4	0	0	10.4	12.8	2.6	0.6	14.8	65.3	3.7	19.4	49.6	103.9	11.1	20.0	+5.2	-0.6	99.6
IRAN	0	3.4	0	3.4	0	3.4	0	3.4	29.8	7.8	0	37.6	68.3	12.8	0	81.1	98.1	27.4	0	0	+47.2	172.7
IRAQ	6.6	2.1	0	8.7	12.1	2.2	0	14.3	0	2.9	0	2.9	0	9.9	0	9.9	18.7	17.1	0	+1.0	0	36.8
ISRAEL	0	0.6	0.4	0.2	0	0.4	0.1	0.3	24.0	20.4	12.7	31.7	16.1	17.4	11.0	22.5	40.1	38.8	24.2	+0.7	+6.6	62.0
KENYA	0	1.5	0	1.5	0	2.1	0	2.1	11.2	0.3	+	11.5	2.2	7.5	+	9.7	13.4	11.4	+	+0.2	+0.3	25.3
NIGERIA	0	0.5	0	0.5	0	3.4	0	3.4	7.1	4.3	0	11.4	6.8	3.6	0	10.4	13.9	11.8	0	+0.5	0	26.2
SOUTH AFRICA	0	0.4	0	0.4	0	8.6	0	8.6	115.3	9.7	15.2	109.8	70.5	66.3	1.2	135.6	185.8	85.0	16.4	+0.1	-3.7	250.8
TANZANIA	0	0	0	0	0	0.1	0	0.1	6.6	0.2	0	6.8	0	1.0	0	1.0	6.6	1.3	0	0	0	7.9
TOTAL M.E., A. & O.	22.0	15.9	0.4	37.5	22.5	25.1	0.1	47.5	237.7	79.0	28.5	288.2	231.4	147.0	32.7	345.7	513.6	267.0	61.7	+7.7	+49.8	776.4
TOTAL ALL COUNTRIES	2282.2	449.6	421.9	2309.9	4295.4	962.5	925.3	4332.6	12616.2	2218.1	2861.3	11973.0	16295.6	3412.4	3907.7	15800.3	35489.4	7042.6	8116.2	+10.8	-388.4	34038.2

Explanation of this table can be found below.

NA Not Available.

+ Less than 50 thousand pounds.

NET AVAILABLE SUPPLY

The 1986 by-country production, import, export and net available or retained supply of four categories of man-made fiber are presented in millions of pounds in Table 9. Regarding the data in Table 9, acetate cigarette tow has been excluded, while imports and exports of tire cord and tire cord fabric have been included.

"Net Available Supply" is defined as production plus imports less exports plus the balance of trade in spun yarn. Sometimes this is also called **"apparent consumption"**. **"Yarn"** is defined to include tire cord and tire cord fabric, filament yarn and monofilaments. **"Staple"** is defined to include tow, fiberfill, tops and advanced waste. Unprocessed waste is not included.

Except for spun yarns, the imports and exports of manufactured and semimanufactured man-made fiber products (e.g., fabric, dresses, hosiery, etc.) are not included in the data.

The spun yarn data are shown under the **"Total Man-Made Fiber"** columns in Table 9; space does not permit the presentation of the import and export data separately. These data may include some quantities of blending fibers other than man-made fiber.

A net import quantity is shown in the **"spun"** column as (+); in other words, an addition to a country's net available supply, while conversely a net export, is (-). For example, the net 1986 cellulosic yarn figure for Japan is shown as -7.0, which consists of imports of 0.7 (+0.7) and exports 7.7 (-7.7).

TABLE 10:
1986 MILL CONSUMPTION OF MAN-MADE FIBER, COTTON & WOOL IN SELECTED COUNTRIES

MILLION POUNDS

COUNTRY	MAN-MADE FIBER[a]	COTTON[b]	WOOL[c]	TOTAL
WESTERN EUROPE				
AUSTRIA	170.4	44.1	7.3	221.8
BELGIUM/NETHERLANDS	620.9	116.8	71.8	809.5
FINLAND	79.7	22.0	1.0	102.7
FRANCE	675.5	321.9	227.5	1224.9
GERMANY, FED. REP.	1082.8	451.9	93.4	1628.1
GREECE	110.3	359.3	23.5	493.1
IRELAND	90.9	50.7	7.2	148.8
ITALY/MALTA	1033.4	564.4	282.1	1879.9
NORWAY	29.7	4.4	3.8	37.9
PORTUGAL	196.0	363.8	20.9	580.7
SPAIN	686.4	246.9	58.4	991.7
SWEDEN	76.5	13.2	2.6	92.3
SWITZERLAND	47.0	134.5	6.4	187.9
TURKEY	519.7	1003.1	88.0	1610.8
UNITED KINGDOM	818.5	99.2	214.3	1132.0
TOTAL WESTERN EUROPE	**6237.7**	**3796.2**	**1108.2**	**11142.1**
EASTERN EUROPE				
ALBANIA	1.7	19.8	d	21.5
BULGARIA	294.6	205.0	32.1	531.7
CZECHOSLOVAKIA	396.6	266.8	39.7	703.1
GERMANY, DEM. REP.	652.2	222.7	40.7	915.6
HUNGARY	127.3	136.7	11.2	275.2
POLAND	595.6	348.3	45.8	989.7
ROMANIA	546.7	264.6	53.9	865.2
U.S.S.R.	3245.4	4607.6	709.7	8562.7
YUGOSLAVIA	406.2	286.6	42.5	735.3
TOTAL EASTERN EUROPE	**6266.3**	**6358.1**	**975.6**	**13600.0**
TOTAL EUROPE	**12504.0**	**10154.3**	**2083.8**	**24742.1**
U.S.A.	**6907.9**	**3066.6**	**145.7**	**10120.2**
OTHER AMERICAS				
ARGENTINA	137.2	257.9	76.4	471.5
BOLIVIA	2.5	24.3	d	26.8
BRAZIL	603.7	1344.8	31.5	1980.0
CANADA	548.8	119.0	11.6	679.4
CHILE	53.1	24.3	11.5	88.9
COLUMBIA	140.7	130.1	7.1	277.9
COSTA RICA	8.6	2.2	d	10.8
CUBA	14.3	97.0	d	111.3
ECUADOR	38.4	28.7	d	67.1
MEXICO	522.4	324.1	13.0	859.5
PERU	113.8	125.7	11.9	251.4
URUGUAY	22.9	11.0	88.9	122.8
VENEZUELA	69.3	88.2	d	157.5
TOTAL OTHER AMERICAS	**2275.7**	**2577.3**	**251.9**	**5104.9**

TABLE 10:
1986 MILL CONSUMPTION OF MAN-MADE FIBER, COTTON & WOOL IN SELECTED COUNTRIES *(CONTINUED)*

MILLION POUNDS

COUNTRY	MAN-MADE FIBER[a]	COTTON[b]	WOOL[c]	TOTAL
JAPAN	**2581.0**	**1510.2**	**248.5**	**4339.7**
CHINA, PRC	**2960.8**	**8545.0**	**572.2**	**12078.0**
OTHER ASIA				
BANGLADESH	16.4	92.6	d	109.0
INDIA	826.1	3434.8	84.3	4345.2
INDONESIA	563.3	359.3	d	922.6
KOREA, REP. OF	1731.9	798.1	74.1	2604.1
MALAYSIA	96.3	97.0	d	193.3
PAKISTAN	198.6	1201.5	46.3	1446.4
PHILIPPINES	193.1	52.9	d	246.0
SRI LANKA	8.9	19.8	d	28.7
TAIWAN	2127.9	727.5	51.6	2907.0
THAILAND	269.9	385.8	d	655.7
TOTAL OTHER ASIA	**6032.4**	**7169.3**	**256.3**	**13458.0**
MIDDLE EAST, AFRICA & OCEANIA				
AUSTRALIA/NEW ZEALAND	95.1	46.3	130.0	271.4
EGYPT	99.6	615.1	12.6	727.3
IRAN	172.7	154.3	d	327.0
IRAQ	36.8	57.3	d	94.1
ISRAEL	62.0	50.7	6.8	119.5
KENYA	25.3	17.6	d	42.9
NIGERIA	26.2	4.4	d	30.6
SOUTH AFRICA	250.8	147.7	66.8	465.3
TANZANIA	7.9	28.7	d	36.6
TOTAL M.E., A. & O.	**776.4**	**1122.1**	**216.2**	**2114.7**
TOTAL ALL COUNTRIES	**34038.2**	**34144.8**	**3774.6**	**71957.6**

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a. Man-made fiber data are from Table 9, pages 12&13, this issue. The data show the man-made net available supply, which approximates mill consumptions.

b. **Source**: *International Cotton Advisory Committee.* Cotton refers to ginned raw cotton. It does not refer to waste or cotton fibers subjected to any other process. Data are for the cotton year ending July 31, 1986.

c. **Source:** *Commonwealth Secretariat.* Wool refers to virgin wool, clean basis.

d. Represents minimal quantity, with exact amount not reported.

TABLE 11:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1987 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1987	1986
CELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	29	139	0	45	57	20	0	0	0	15	0		305	518
OTHER	310.0130 & .0230[a]	1237	691	891	1000	729	607	704	1026	969	1279	1007		10140	13340
MONOFILAMENTS	309.0310 & .0610	0	5	0	0	0	0	0	+	0	0	0		5	20
STRIPS, $1/LB & UNDER	309.2000*	1	0	0	0	0	27	12	80	29	49	10		208	756
SUBTOTAL ABOVE		**1267**	**835**	**891**	**1045**	**786**	**654**	**716**	**1106**	**998**	**1343**	**1017**		**10658**	**14634**
STAPLE	309.4320 & .4325	867	1402	1569	1336	1072	1397	542	1116	968	895	1108		12272	15580
GROUPED FILAMENTS	309.3010 & .3310	118	22	91	42	17	0	62	235	118	70	18		793	916
SUBTOTAL ABOVE		**985**	**1424**	**1660**	**1378**	**1089**	**1397**	**604**	**1351**	**1086**	**965**	**1126**		**13065**	**16496**
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	**0**	**0**	**0**	**7**	**0**	**21**	**0**	**0**	**0**	**0**	**30**		**58**	**121**
NONCELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	142	163	113	123	147	150	188	228	170	243	227		1894	2564
450 DENIER AND OVER	310.0108 & .0208	2592	2933	3169	3131	1822	1660	1917	1752	2810	2121	1779		25686	31627
- POLYESTER	310.0110 & .0210	1000	2243	1670	1399	1016	650	1165	1062	1102	1306	1338		13951	12201
- OTHER	310.0114 & .0214	1876	2010	1396	1300	1785	1867	1595	3246	1980	2170	2026		21251	18489
OTHER - NYLON	310.0149 & .0249	2008	2121	2350	2348	1695	1694	2086	1757	2033	2030	1626		21748	20656
- POLYESTER	310.0150 & .0250	1918	1327	2088	2006	1590	1438	1693	1191	1329	1731	1514		17825	20930
- OTHER	310.0170 & .0270[b]	445	486	610	680	713	358	725	622	443	523	550		6155	4680
MONOFILAMENTS	309.0200 & .0330[c]	272	281	265	263	354	297	329	310	336	461	315		3483	2482
STRIPS, OVER $1/LB	309.2100 & .2500*	199	196	235	244	169	161	263	223	211	298	130		2329	1407
SUBTOTAL ABOVE		**10452**	**11760**	**11896**	**11494**	**9291**	**8275**	**9961**	**10391**	**10414**	**10883**	**9505**		**114322**	**115036**
STAPLE - NYLON	309.4331 & .4351	5346	4106	5357	3521	2137	3037	1984	3374	3202	3621	1485		37170	47801
- POLYESTER	309.4336 & .4361	5335	5030	5122	4833	6596	5980	6805	7910	8667	5973	4341		66592	36020
- ACRYLIC	309.4366	1216	839	1202	1285	1073	1724	1521	1617	1516	1204	1335		14532	16294
- OLEFIN	309.4371	2	153	42	38	21	28	37	41	77	8	44		491	1828
- OTHER	309.4341 & .4390	479	904	1233	1011	918	1567	1152	1261	1103	1477	930		12035	13866
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3012	2523	2383	2409	2436	2723	2548	2867	2765	2939	3110		29715	35626
POLYESTER	309.3040 & .3340	367	279	441	383	260	145	297	53	149	160	265		2799	1929
ACRYLIC	309.3050 & .3350	861	1144	1073	1290	1015	1104	947	1234	896	1128	811		11503	12433
OTHER	309.3065 & .3365	139	138	141	178	301	121	160	124	63	79	77		1521	2409
SUBTOTAL ABOVE		**16757**	**15116**	**16994**	**14948**	**14757**	**16429**	**15451**	**18481**	**18438**	**16589**	**12398**		**176358**	**168206**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2279	2182	3100	1454	2026	2732	2280	2160	2151	2042	2672		25078	20359
- POLYESTER	309.6630	1077	823	1475	867	525	1035	377	688	321	628	695		8711	5892
- ACRYLIC	309.6645	20	53	0	18	41	0	18	53	29	38	19		289	328
- OTHER	309.6660	415	518	810	415	460	339	269	199	399	589	187		4600	7934
NOILS & GARNETTED FIBERS	309.7000*	0	0	0	0	0	31	0	0	31	0	0		62	164
OTHER WASTE, ADVANCED	309.7525 - .7555	42	153	67	638	1016	243	848	551	266	730	645		5199	2626
SUBTOTAL ABOVE		**3833**	**3729**	**5452**	**3392**	**4068**	**4380**	**3792**	**3651**	**3197**	**4227**	**4218**		**43939**	**37303**
TOTAL MAN-MADE ABOVE		33294	32864	36893	32264	29991	31156	30524	34980	34133	34007	28294		358400	351796
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0	0	2	0	3	0	+		5	1
- NONCELLULOSIC	310.1015[d]& .1205[e]	142	337	528	392	440	487	299	322	381	220	205		3753	9967
OTHER - CELLULOSIC	310.1030 & .1535[f]	8	85	77	43	19	72	12	72	16	23	91		518	453
- NONCELLULOSIC	310.1050 & .1070[g]	336	339	306	285	157	214	252	266	289	269	282		2995	4235
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	151	112	165	134	60	143	165	222	77	130	58		1417	2250
- OTHER	310.4015 & .4027[i]	2574	3765	3067	3780	4318	3892	3561	2543	2389	2782	2216		34887	41474
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	1493	1673	1629	2004	1943	2792	2993	2628	2849	3397	2456		25857	15255
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	831	662	737	690	689	915	811	562	844	751	652		8144	4346
SLIVER, TOPS & ROVING	309.9000	383	279	281	607	585	1021	594	260	716	410	236		5372	3060
TEXTILE GLASS FIBER	309.2800 & .2900[k]	1431	1868	1653	2285	1279	2046	2459	4637	4240	2869	2458		27225	22300
GRAND TOTAL ABOVE		**40643**	**41984**	**45336**	**42484**	**39481**	**42736**	**41672**	**46492**	**45937**	**44858**	**36946**		**468573**	**455137**

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

+ Less than 1 thousand pounds.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 12:
U.S. EXPORTS OF MAN-MADE FIBERS
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1987												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
CELLULOSIC FIBERS															
FILAMENT YARN [a]															
TEXTURED	310.0004	43	100	101	24	17	12	36	28	135	22	53		571	93
OTHER [b]	310.0026	475	365	639	468	654	306	503	372	260	335	388		4765	6487
MONOFILAMENTS	309.0110	0	0	0	2	0	+	39	0	34	93	76		244	223
STRIPS	309.2210	1	1	40	2	13	0	3	11	4	4	3		82	14
SUBTOTAL ABOVE		**519**	**466**	**780**	**496**	**684**	**318**	**581**	**411**	**433**	**454**	**520**		**5662**	**6817**
STAPLE+TOW-RAYON	309.4222	3930	1732	3107	2705	2582	2700	4047	4355	4372	1799	790		32119	29144
STAPLE-ACETATE	309.4219	33	112	156	112	215	164	144	96	159	121	290		1602	1561
SUBTOTAL ABOVE		**3963**	**1844**	**3263**	**2817**	**2797**	**2864**	**4191**	**4451**	**4531**	**1920**	**1080**		**33721**	**30705**
WASTE, ADVANCED&NOT ADVANCED	309.7400	**231**	**169**	**47**	**134**	**52**	**35**	**50**	**113**	**12**	**133**	**73**		**1049**	**2087**
NONCELLULOSIC FIBERS															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	2678	2441	2542	2077	2760	3503	2614	3644	3286	2496	3314		31355	22280
- HIGH TENACITY [c]	310.0027	7294	6373	5419	6719	7072	5385	8394	8212	4926	7044	5594		72432	68769
- OTHER	310.0029	636	684	605	753	883	1054	571	639	1020	851	709		8405	9748
POLYESTER - TEXTURED	310.0010	2151	2949	3145	2473	2079	1983	1523	1752	1467	1772	2212		23506	66683
- HIGH TENACITY [c]	310.0032	1691	1913	2308	1475	1806	2286	3231	2612	2259	1942	1822		23345	20064
- OTHER [d]	310.0034	160	233	152	75	201	161	122	139	112	115	160		1630	2327
OTHER - TEXTURED	310.0014	1053	1386	1502	1133	1406	1995	1520	1344	1405	1275	2168		16187	20195
- OLEFIN	310.0040	74	35	53	55	16	72	18	157	88	69	80		717	1672
- OTHER	310.0044	389	577	654	748	445	737	488	433	405	458	848		6182	5815
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	416	687	641	417	553	676	370	621	556	668	699		6304	4805
POLYESTER	309.0140	322	523	524	587	1447	1142	954	1154	1429	1534	1774		11390	5373
OTHER	309.0170	478	492	875	480	718	656	502	617	628	911	419		6776	4199
STRIPS	309.2220 & .2270	259	424	470	342	537	360	203	375	346	664	369		4349	3489
SUBTOTAL ABOVE		**17601**	**18717**	**18890**	**17334**	**19923**	**20010**	**20510**	**21699**	**17927**	**19799**	**20168**		**212578**	**235419**
STAPLE - NYLON	309.4240	2060	1757	2615	1445	2092	1258	1694	1315	1996	2238	2388		20858	13704
- POLYESTER	309.4242	18819	17019	16575	14494	13960	15011	11006	13848	12834	13720	9565		156851	96751
- ACRYLIC	309.4245	4792	3355	2531	2440	4482	5365	4746	4997	7953	10827	5603		57091	52377
- OLEFIN	309.4246	1893	2016	2642	2075	1583	1203	1849	1701	2060	1332	1215		19569	13803
- OTHER	309.4247	1004	3194	2027	2959	4586	7965	2919	1998	1925	2708	1981		33266	16094
GROUPED FILAMENTS															
NYLON	309.3220	283	737	386	275	259	470	401	350	394	740	775		5070	5055
POLYESTER [d]	309.3240	1941	1832	1578	2318	1728	1811	1233	1095	1939	1769	1374		18618	18277
ACRYLIC	309.3250 & .3255	1653	2207	1805	1980	2329	1768	2395	2116	2415	2159	2275		23102	20350
SUBTOTAL ABOVE		**32445**	**32117**	**30159**	**27986**	**31019**	**34851**	**26243**	**27420**	**31516**	**35493**	**25176**		**334425**	**236411**
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	1021	1143	1095	1164	1260	1066	225	892	641	843	1248		10598	8461
- POLYESTER	309.7630	2830	4649	5303	5570	5293	4829	3927	4753	4135	5746	4865		51900	54411
- ACRYLIC	309.7640	1086	1362	1545	432	428	701	456	681	664	631	660		8646	6099
- OTHER	309.7660	2543	3090	5034	2174	2633	3380	1485	2039	3866	3100	3696		33040	44251
SUBTOTAL ABOVE		**7480**	**10244**	**12977**	**9340**	**9614**	**9976**	**6093**	**8365**	**9306**	**10320**	**10469**		**104184**	**113222**
TOTAL MAN-MADE ABOVE		**62239**	**63557**	**66116**	**58107**	**64089**	**68054**	**57668**	**62459**	**63725**	**68119**	**57486**		**691619**	**624661**
TEXTILE GLASS FIBER	309.2700 & .9700	5992	6585	7160	7265	7967	7821	6250	7599	6180	7515	7134		77468	55942
GRAND TOTAL ABOVE		**68231**	**70142**	**73276**	**65372**	**72056**	**75875**	**63918**	**70058**	**69905**	**75634**	**64620**		**769087**	**680603**

SOURCE: U.S. Census Bureau Report EM522.

+ Less than 1 thousand pounds.

a. Includes thrown, singles and plied yarn.

b. Includes rayon tire cord and cord fabric.

c. Includes noncellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

TABLE 13:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEMS & COUNTRY	1987												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	138	0	43	42	21	0	0	0	0	0		244	30
BRAZIL	86	29	0	28	54	88	29	44	64	134	28		584	278
CANADA	425	368	175	323	285	70	137	180	248	301	307		2819	4529
GERMANY, FED. REP.	442	229	561	363	332	352	370	499	426	588	329		4491	4792
JAPAN	209	10	39	39	6	38	66	16	63	94	0		580	385
MEXICO	3	15	10	102	28	18	58	111	104	44	99		592	705
NETHERLANDS	101	43	105	147	38	40	42	176	63	127	151		1033	2400
ALL OTHER COUNTRIES [a]	1	3	1	0	[illegible]	27	14	80	30	55	103		315	1515
TOTAL CELLULOSIC YARN	1267	835	891	1045	786	654	716	1106	998	1343	1017		10658	14634
CELLULOSIC STAPLE+TOW														
CANADA	749	1188	1356	1230	841	1185	420	1115	885	687	944		10600	11891
ITALY	88	0	59	51	61	35	78	149	66	36	101		724	455
JAPAN	59	168	168	18	98	61	59	60	94	99	78		962	947
SWEDEN	43	0	0	48	89	39	0	0	0	110	0		329	491
UNITED KINGDOM	46	5	73	24	0	41	42	27	41	22	3		324	626
ALL OTHER COUNTRIES [b]	0	63	4	7	0	36	5	0	0	11	+		126	2086
TOTAL CELLULOSIC STAPLE+TOW	985	1424	1660	1378	1089	1397	604	1351	1086	965	1126		13065	16496
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1408	1377	559	560	653	849	671	2122	893	1220	1001		11313	12590
CANADA	890	1976	1613	1605	1802	1214	1426	1726	1624	1210	1313		16399	15409
CHINA, PRC	0	0	94	0	267	30	0	0	0	0	0		391	60
COSTA RICA	729	515	642	589	590	564	585	489	510	475	557		6245	6065
DENMARK	31	62	0	0	32	30	30	0	30	0	0		215	183
FRANCE	686	685	659	648	306	678	331	91	72	550	717		5423	7374
GERMANY, FED. REP.	1744	2397	2421	2740	1373	1347	2176	2052	1900	1851	1654		21655	20317
IRELAND	81	58	0	0	106	79	54	0	35	34	1		448	447
ISRAEL	162	233	90	249	321	97	165	300	228	296	310		2451	3012
ITALY	1202	866	1292	1254	940	985	1020	394	1748	1446	875		12022	11664
JAPAN	992	570	670	661	525	548	523	691	492	408	531		6611	7521
KOREA, REP. OF	41	21	22	20	60	25	25	25	72	46	46		403	288
MEXICO	1167	2037	2527	1939	1660	871	1829	1268	1757	2087	1605		18747	12896
NETHERLANDS	93	184	151	99	61	62	154	90	83	62	+		1039	1283
SINGAPORE	73	0	66	44	21	23	49	55	0	66	33		430	139
SWITZERLAND	253	2	64	2	9	1	15	+	2	44	39		431	454
TAIWAN	14	39	63	46	34	116	104	89	106	57	32		700	878
UNITED KINGDOM	735	596	844	894	483	670	610	773	821	762	650		7838	6867
ALL OTHER COUNTRIES [c]	151	142	119	144	48	86	194	226	41	269	141		1561	7589
TOTAL NONCELLULOSIC YARN	10452	11760	11896	11494	9291	8275	9961	10391	10414	10883	9505		114322	115036
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	61	18	130	177	38	312	274	287	240	353	285		2175	390
BELGIUM	21	36	18	18	53	1	+	17	0	15	+		179	468
BRAZIL	0	438	236	379	262	297	0	61	0	0	0		1673	608
CANADA	3125	3071	3201	2248	2236	2507	2725	1771	2893	2263	1748		27788	22529
FRANCE	955	588	532	585	520	1193	279	766	639	469	764		7290	9395
GERMANY, FED. REP.	2586	2359	2194	2463	1766	1951	2805	3147	4935	3892	1964		30062	27942
IRELAND	109	0	0	0	0	344	91	122	394	403	116		1579	498
ISRAEL	62	0	31	0	291	36	0	36	1	0	0		457	464
ITALY	2265	1688	2200	980	344	1183	100	853	1304	1220	317		12454	20138
JAPAN	1849	1582	2230	2472	1577	2390	1698	2317	1574	2185	1218		21092	21093
KOREA, REP. OF	935	947	655	614	1247	956	1106	1254	819	1053	898		10484	4718
MALAYSIA	48	95	0	95	87	95	0	48	48	0	48		564	191
MEXICO	1586	1232	1784	824	2080	1303	3161	3339	2043	1279	1149		1978[illegible]	14202
ROMANIA	372	58	590	88	516	749	339	615	271	303	159		4060	2513
SWITZERLAND	71	152	198	89	17	70	66	34	96	85	138		1016	717
TAIWAN	1911	1559	1338	2580	1985	2003	1774	2390	2019	1521	2132		21212	18541
UNITED KINGDOM	777	1280	1522	1264	1635	1032	953	1339	687	1474	1376		13339	20791
ALL OTHER COUNTRIES [d]	24	13	135	72	103	7	80	85	475	74	86		1154	3008
TOTAL NONCELLULOSIC STAPLE+TOW	16757	15116	16994	14948	14757	16429	15451	18481	18438	16589	12398		176358	168206

+ Less than 1 thousand pounds.

a. Korea, Rep. of 104, Italy 79, Taiwan 50, Hong Kong 39, France 20, Singapore 15, Australia 5, United Kingdom 2, Belgium 1.

b. Austria 76, Germany, Fed. Rep. 23, Mexico 9, France 8, Venezuela 4, Finland 3, Brazil 2, Belgium 1.

c. Spain 302, Romania 166, Australia 136, Chile 136, Argentina 125, Turkey 124, New Zealand 110, South Africa 88, Sweden 72, Austria 55, Iran 39, Morocco 33, Norway 32, Philippines 27, Brazil 19, Thailand 16, Greece 12, Bangladesh 6, Guatemala 1, Iceland 1, El Salvador, Hong Kong.

d. Spain 425, Australia 262, Denmark 138, Hong Kong 106, Costa Rica 91, Turkey 39, Finland 38, China, PRC 28, Netherlands 16, Egypt 7, Portugal 2, India 1, Sweden 1, N. Antil., Philippines.

TABLE 14:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

ITEM	1987												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
	MAN-MADE FIBER TOTAL SHIPMENTS[b c]													
CELLULOSIC														
YARN	14.6	13.7	15.9	16.5	16.1	16.9	14.6	14.8	16.9	17.1	15.7	18.9	191.7	212.3
RAYON STAPLE	34.1	29.7	36.1	33.2	31.6	34.4	33.6	37.0	39.9	36.5	32.8	36.6	415.5	403.8
TOTAL CELLULOSIC	48.7	43.4	52.0	49.7	47.7	51.3	48.2	51.8	56.8	53.6	48.5	55.5	607.2	616.1
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[e]	31.0	32.8	30.6	29.5	35.7	30.0	30.6	31.2	29.6	31.7	30.3	30.4	373.4	333.4
- CARPET	75.1	77.6	79.9	76.9	86.2	78.5	80.4	82.5	89.1	78.1	65.3	71.0	940.6	898.5
- TEXTILE[g]	30.5	30.4	33.5	32.1	32.4	31.4	31.1	31.5	33.5	30.1	31.2	31.0	378.7	360.5
POLYESTER - INDUSTRIAL[e]	26.6	27.6	29.4	27.7	28.0	26.9	26.1	29.6	30.7	30.3	27.1	28.8	338.8	313.9
- TEXTILE[g]	63.3	64.0	72.3	75.7	73.6	71.7	72.3	65.9	72.0	70.9	72.4	67.5	841.6	855.8
OLEFIN[f]	92.3	87.6	84.3	88.9	91.4	103.2	83.2	99.1	107.0	95.8	94.7	100.2	1127.7	1059.7
TOTAL YARN	318.8	320.0	330.0	330.8	347.3	341.7	323.7	339.8	361.9	336.9	321.0	328.9	4000.8	3821.8
STAPLE+TOW+FIBERFILL														
NYLON	84.1	81.2	86.2	88.7	91.1	78.4	81.6	84.2	84.1	88.4	71.4	66.1	985.5	908.2
ACRYLIC+MODACRYLIC	49.2	50.7	54.2	51.2	52.3	45.1	47.5	50.0	47.3	51.4	43.5	51.0	593.4	614.1
POLYESTER	184.8	192.2	205.6	195.1	193.4	208.4	181.6	186.5	207.7	205.3	199.4	209.2	2369.2	2123.4
OLEFIN+VINYON[d]	28.2	27.9	31.9	31.1	30.0	30.3	26.9	32.0	32.6	31.3	30.8	29.9	362.9	331.5
TOTAL STAPLE	346.3	352.0	377.9	366.1	366.8	362.2	337.6	352.7	371.7	376.4	345.1	356.2	4311.0	3977.2
TOTAL NONCELLULOSIC	665.1	672.0	707.9	696.9	714.1	703.9	661.3	692.5	733.6	713.3	666.1	685.1	8311.8	7799.0
TOTAL MAN-MADE FIBER	713.8	715.4	759.9	746.6	761.8	755.2	709.5	744.3	790.4	766.9	714.6	740.6	8919.0	8415.1
	MAN-MADE FIBER END-OF-MONTH STOCK													
CELLULOSIC														
YARN	17.9	18.2	16.8	15.2	14.7	14.0	14.0	13.3	12.9	12.0	11.6	14.2	14.2	14.8
RAYON STAPLE	24.3	26.1	23.8	24.7	25.9	25.1	25.0	21.2	18.2	16.3	18.2	20.7	20.7	22.4
TOTAL CELLULOSIC	42.2	44.3	40.6	39.9	40.6	39.1	39.0	34.5	31.1	28.3	29.8	34.9	34.9	37.2
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[e]	29.2	24.9	26.7	29.0	27.0	25.8	26.5	24.9	22.8	22.2	21.8	20.9	20.9	30.8
- CARPET	56.6	55.5	52.3	52.4	48.3	47.7	52.7	49.3	45.2	47.6	60.4	65.4	65.4	54.7
- TEXTILE[g]	49.6	49.4	46.5	47.2	47.6	46.8	48.6	47.0	45.7	46.4	48.3	49.9	49.9	47.3
POLYESTER - INDUSTRIAL[e]	30.6	30.0	27.8	29.0	28.5	29.4	31.6	28.1	25.2	23.5	24.5	27.8	27.8	29.4
- TEXTILE[g]	85.6	88.8	87.6	83.2	80.0	85.7	85.6	85.0	87.2	86.0	82.5	81.5	81.5	81.5
OLEFIN[f]	54.7	55.6	54.5	56.3	56.0	54.9	57.0	55.7	53.0	54.1	56.7	52.9	52.9	62.9
TOTAL YARN	306.3	304.2	295.4	297.1	287.4	290.3	302.0	290.0	279.1	279.8	294.2	298.4	298.4	306.6
STAPLE+TOW+FIBERFILL														
NYLON	59.3	53.8	58.7	57.7	56.4	61.5	66.9	61.6	64.4	61.7	68.9	69.7	69.7	62.8
ACRYLIC+MODACRYLIC	68.2	67.9	67.8	70.1	71.6	78.2	73.9	70.0	68.7	63.8	66.6	63.3	63.3	66.2
POLYESTER	178.0	169.8	162.3	162.4	171.7	161.6	182.1	180.6	164.2	166.5	163.7	156.5	156.5	163.9
OLEFIN+VINYON[d]	33.3	32.6	31.0	30.3	30.8	31.9	34.5	32.9	32.5	32.6	32.5	30.1	30.1	33.5
TOTAL STAPLE	338.8	324.1	319.8	320.5	330.5	333.2	357.4	345.1	329.8	324.6	331.7	319.6	319.6	326.4
TOTAL NONCELLULOSIC	645.1	628.3	615.2	617.6	617.9	623.5	659.4	635.1	608.9	604.4	625.9	618.0	618.0	633.0
TOTAL MAN-MADE FIBER	687.3	672.6	655.8	657.5	658.5	662.6	698.4	669.6	640.0	632.7	655.7	652.9	652.9	670.2
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	13.8	13.1	15.0	13.8	13.4	13.8	10.6	10.8	13.6	12.5			130.4	128.6
CARPET CLASS WOOL	0.8	0.8	1.2	1.3	1.3	0.8	1.2	1.4	1.2	1.5			11.5	8.6
TOTAL RAW WOOL	14.6	13.9	16.2	15.1	14.7	14.6	11.8	12.2	14.8	14.0			141.9	137.2
RAW COTTON	302.3	281.8	341.4	301.8	308.4	328.2	261.6	293.4	394.1	329.6			3142.6	2694.1

a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. 1987 data exclude Vinyon.
e. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
f. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
g. Includes low denier industrial yarn.

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- Flat Yarn
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- Indirect Exports

Quarterly

- Production
- Domestic Shipments
- Imports
- Exports
- Shipments by Denier
- Inventories
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- Secondary End Use
- Waste Shipments
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101 Eisenhower Parkway
Roseland, New Jersey 07068
Telephone: (201) 228-1107
FAX: (201) 228-7598

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Highlights

- 1987 Import/Export Review ... begins on page 24.
- Quarterly Fiber and Fiber Manufactures Import/Export Data ... begin on page 29.
- Quarterly Man-Made Fiber Data ... begin on page 34.

SHIPMENTS:

Total man-made fiber shipments in January fell to 706.2 million pounds, a 6.2% decline from the previous month and a level 1.1% below January of last year. Several seasonal trends were apparent. For example, cellulosic yarn at 15.9 million pounds was down 15.9% from December but ahead 8.9% from the previous January. Rayon staple shipments at 32.6 million pounds were 10.9% below the previous month but down just 4.4% from last January. Nylon staple at 78.0 million pounds was ahead 18.0% from December but was 7.3% below the level of January 1987.

Noncellulosic yarn shipments totaled 313.0 million pounds, a decline of 7.8% from December and 1.8% below the previous January. Noncellulosic staple at 344.7 million pounds was 3.8% below the December level and 0.5% less than the level of January last year.

TABLE 1:
TOTAL U.S. MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1988 JAN	1987 DEC	% CHG 12/87-1/88	1987 JAN	% CHG 1/87-1/88	YEAR TO DATE 1988	YEAR TO DATE 1987	% CHG YTD 1987-1988
CELLULOSIC								
YARN	15.9	18.9	*-15.9*	14.6	*+8.9*	15.9	14.6	*+8.9*
RAYON STAPLE	32.6	36.6	*-10.9*	34.1	*-4.4*	32.6	34.1	*-4.4*
TOTAL CELLULOSIC	**48.5**	**55.5**	***-12.6***	**48.7**	***-0.4***	**48.5**	**48.7**	**-0.4**
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	27.5	30.4	*-9.5*	31.0	*-11.3*	27.5	31.0	*-11.3*
- CARPET	72.6	72.0	*+0.8*	75.1	*-3.3*	72.6	75.1	*-3.3*
- TEXTILE[a]	30.0	31.1	*-3.5*	30.5	*-1.6*	30.0	30.5	*-1.6*
POLYESTER - INDUSTRIAL	26.5	28.8	*-8.0*	26.6	*-0.4*	26.5	26.6	*-0.4*
- TEXTILE[a]	62.9	67.4	*-6.7*	63.3	*-0.6*	62.9	63.3	*-0.6*
OLEFIN	93.5	109.7	*-14.8*	92.3	*+1.3*	93.5	92.3	*+1.3*
TOTAL YARN	**313.0**	**339.4**	***-7.8***	**318.8**	***-1.8***	**313.0**	**318.8**	***-1.8***
STAPLE+TOW+FIBERFILL								
NYLON	78.0	66.1	*+18.0*	84.1	*-7.3*	78.0	84.1	*-7.3*
ACRYLIC+MODACRYLIC	48.5	52.0	*-6.7*	49.2	*-1.4*	48.5	49.2	*-1.4*
POLYESTER	190.4	209.2	*-9.0*	184.8	*+3.0*	190.4	184.8	*+3.0*
OLEFIN	27.8	30.9	*-10.0*	28.2	*-1.4*	27.8	28.2	*-1.4*
TOTAL STAPLE	**344.7**	**358.2**	***-3.8***	**346.3**	***-0.5***	**344.7**	**346.3**	***-0.5***
TOTAL NONCELLULOSIC	**657.7**	**697.6**	***-5.7***	**665.1**	***-1.1***	**657.7**	**665.1**	***-1.1***
TOTAL MAN-MADE FIBER	**706.2**	**753.1**	***-6.2***	**713.8**	***-1.1***	**706.2**	**713.8**	***-1.1***

[a] Includes low denier industrial yarn.

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TEXTILE ECONOMICS BUREAU, INC.
President
Rosemarie D. Frick

Editor, Textile Organon
David S. Morey

Publishing Headquarters:
Textile Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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DATAGRAM

FIBER IMPORTS INCREASED 0.8% IN 1987

In 1987, U.S. imports of man-made fiber increased by 2.9 million pounds, or 0.8% more than the 1986 quantity, to reach a total of 386.6 million pounds. The product showing the largest growth was polyester staple, whose imports increased by 29.9 million pounds over the previous year. (See Table 4)

FIBER EXPORTS INCREASED 9.8% IN 1987

1987 U.S. exports of man-made fiber increased by 67.3 million pounds, or 9.8% above the 1986 level, to total 752.7 million pounds for the year. Polyester staple showed the largest gain in exports by increasing 56.9 million pounds. (See Table 3)

THE U.S. QUARTERLY IMPORT BALANCE OF MAN-MADE FIBER AND FIBER MANUFACTURES FELL IN THE FOURTH QUARTER 1987

The total import balance for man-made fiber and fiber manufactures fell in the 4th quarter 1987 to reach 131.2 million pounds, a level 40.3 million pounds, or 23.5%, below the 4th quarter 1986 import balance. During the same time period the quarterly import balance of cotton manufactures grew by 117.7 million pounds and the import balance of wool manufactures fell by 13.6 million pounds. (See Table 7)

THE TOTAL AVAILABLE SUPPLY OF CELLULOSIC FIBER INCREASED IN THE FOURTH QUARTER 1987, WHILE THE NONCELLULOSIC AVAILABLE SUPPLY DECREASED

In the 4th quarter of 1987, the total available supply of both cellulosic yarn and rayon staple increased over 3rd quarter levels. In the same period, the total available supply of noncellulosic yarn and staple fell 2.5% and 1.0% respectively . In comparing the year 1987 with 1986, the available supply of cellulosic yarn fell 13.9%, while that of rayon staple gained 1.7%, noncellulosic yarn gained 4.3% and noncellulosic staple gained 6.5%. (See Table11)

HOECHST CELANESE COMPLETES SALE OF TWO POLYESTER TEXTILE FIBER PLANTS

Hoechst Celanese Corporation announced completion of the sale of the polyester fiber plants at Darlington SC and Fayetteville NC to Fiber Industries, Inc. The sale includes related manufacturing, administrative and technical support assets, and the "Fortrel" trademark. (Hoechst Celanese News Release)

TABLE 2:
SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION

COUNTRY	A. CELLULOSIC YARN MONOFIL & STRIPS				B. NONCELLULOSIC TEXTILE YARN				C. NONCELL. INDUSTRIAL YARN, MONOFIL & STRIPS				D. CELLULOSIC STAPLE+TOW				E. NONCELLULOSIC STAPLE+TOW			
	THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS	
	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987
AUSTRIA	0	0	0	0	13	0	91	0	29	5	141	19	5	1	7	2	32	20	33	12
BELGIUM/LUXEMBOURG	1186	678	2149	1131	8504	8684	28738	32586	14994	28638	19813	41951	909	1169	673	833	9450	12290	34300	42700
DENMARK	0	0	0	0	657	913	841	1344	139	43	127	44	9	10	11	20	4192	664	4004	706
FINLAND	0	0	0	0	31	223	256	425	757	520	853	529	1	1	1	2	184	233	93	147
FRANCE	8	21	49	55	2546	2328	9936	11405	320	723	680	1633	171	169	300	285	685	1841	872	2041
GERMANY, FED. REP.	55	157	117	225	1112	1328	4659	6647	7685	1890	9717	3739	144	133	298	288	2667	4211	3904	5526
GREECE	0	13	0	24	21	27	57	47	15	13	82	76	0	20	0	27	154	95	190	131
ICELAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	95	221	93	223
IRELAND	0	0	0	0	973	100	1533	359	663	772	1172	1234	0	0	1	0	444	875	953	1016
ITALY	1	+	2	4	744	935	1663	2154	1376	2860	1985	3306	84	42	97	43	6509	9881	4276	6293
NETHERLANDS	50	0	69	0	938	1196	1223	1612	303	1408	640	2247	15	22	17	8	4693	4291	4631	4148
NORWAY	0	0	0	0	393	71	514	62	296	428	294	507	76	41	82	64	171	241	209	265
PORTUGAL	0	20	0	44	620	160	720	218	255	70	300	87	0	0	0	0	0	0	0	0
SPAIN	0	25	0	42	963	2088	1221	2831	341	241	543	517	16	11	16	10	5832	5040	2989	3089
SWEDEN	0	0	0	0	333	244	407	321	479	1823	542	1967	28	26	37	38	1097	1540	1184	1714
SWITZERLAND	1	0	2	0	789	55	809	229	537	182	877	410	11	36	28	26	2798	5150	1743	2929
TURKEY	0	0	0	0	33	796	33	1023	27338	28777	26700	30539	87	0	155	0	4606	7609	2395	3836
UNITED KINGDOM	41	39	166	152	4259	4897	7289	8587	3892	6370	6024	9118	1599	269	1212	379	1898	4098	4164	7141
OTHER	0	0	0	0	0	0	0	0	0	1	0	7	0	0	0	0	4	0	3	0
TOTAL WESTERN EUROPE	1342	953	2554	1677	22929	24045	59990	69850	59419	74764	70490	97930	3155	1950	2935	2025	45511	58228	66036	81917
CZECHOSLOVAKIA	0	0	0	0	0	0	0	0	19	546	97	594	0	0	0	0	0	450	0	318
GERMANY, DEM. REP.	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	7	0	2	0
HUNGARY	0	63	0	88	71	0	82	0	0	0	0	0	0	0	0	0	0	0	0	0
POLAND	0	0	0	0	110	387	169	598	2542	1400	2362	1412	203	662	152	565	5689	7566	3223	3773
U.S.S.R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YUGOSLAVIA	0	0	0	0	1	0	13	0	1937	549	1796	527	0	0	0	0	647	0	410	0
OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL EASTERN EUROPE	0	63	0	88	183	387	266	598	4498	2495	4255	2533	203	662	152	565	6343	8016	3635	4091
ARGENTINA	19	32	45	7	201	248	334	351	130	249	396	569	144	93	93	64	323	455	434	763
BOLIVIA	0	67	0	76	118	126	293	336	44	9	113	21	0	0	0	0	321	670	381	601
BRAZIL	132	175	205	313	1586	1531	3471	2682	1474	1027	3887	2547	66	255	59	208	1226	637	1628	2178
CANADA	3719	2745	4086	3745	18905	28718	32477	48979	9320	10325	21417	23142	323	950	264	648	58730	88387	48072	64623
CHILE	6	0	11	0	509	129	911	257	214	143	647	404	2059	1660	1653	1233	13893	13957	9456	8413
COLOMBIA	0	25	0	52	884	406	1482	770	520	1440	3368	7253	4215	3508	2466	2361	13909	19496	8197	11545
COSTA RICA	0	3	0	7	6454	3717	6579	2867	380	35	250	89	107	37	76	26	1687	2967	1264	1878
DOMINICAN REPUBLIC	2	156	4	188	1642	1936	1274	1693	294	48	160	103	22	0	22	0	528	790	318	530
ECUADOR	170	172	261	387	1205	571	1422	512	75	139	269	302	67	686	54	480	8869	8828	6544	5317
EL SALVADOR	2	0	3	0	4873	758	4327	743	729	1215	1647	1753	241	43	181	72	4488	3689	3689	2259
GUATEMALA	0	21	0	61	1647	1555	1342	1493	151	38	379	149	0	0	0	0	2496	6769	1642	4154
HAITI	0	1	0	9	202	272	268	334	713	737	1002	1037	6	1	6	2	9	6	10	22
HONDURAS	0	0	0	0	1688	556	1234	760	85	20	108	58	4	3	12	9	386	2167	270	1207
JAMAICA	5	0	7	0	476	441	633	559	17	14	54	32	0	0	0	0	1	43	5	86
LEEWARD & WINDWARD ISL.	0	0	0	0	27	0	13	2	1	0	1	0	0	0	0	0	9	5	5	5
MEXICO	205	50	428	72	675	1737	1298	3347	1381	2223	3605	6084	9926	9142	7363	5984	16576	22341	14598	19021
NICARAGUA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PANAMA	0	0	0	0	159	155	228	251	126	133	175	612	0	0	0	0	94	60	76	379
PARAGUAY	0	0	0	0	9	0	21	0	0	1	0	10	0	0	0	0	9	0	5	0
PERU	4	5	7	11	167	196	258	326	1423	536	2279	880	137	429	132	314	482	451	295	246
TRINIDAD	0	0	0	0	1	2	3	10	6	52	45	79	0	0	0	0	8	8	39	20
URUGUAY	0	169	0	266	175	94	171	103	6	3	20	18	0	34	1	23	371	499	303	352
VENEZUELA	7	23	26	29	2254	1201	3125	2441	435	153	1300	1129	8346	7808	6136	6532	4116	4486	3802	4059
OTHER	0	0	0	0	18	90	43	71	9	5	23	28	+	4	2	12	38	19	77	23
TOTAL OTHER AMERICAS	4271	3644	5083	5223	43875	44439	61207	68887	17533	18545	41145	46299	25663	24653	18520	17968	128569	176730	101110	127681

TABLE 2:
SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION *(CONTINUED)*

	A. CELLULOSIC YARN MONOFIL & STRIPS				B. NONCELLULOSIC TEXTILE YARN				C. NONCELL. INDUSTRIAL YARN, MONOFIL & STRIPS				D. CELLULOSIC STAPLE+TOW				E. NONCELLULOSIC STAPLE+TOW			
	THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS	
COUNTRY	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987
BANGLADESH	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3
HONG KONG	13	5	35	126	754	600	1365	1195	290	361	900	1301	101	37	127	78	3873	9312	5069	5393
INDIA	104	140	69	96	485	231	802	428	2346	2808	3014	3429	97	52	65	35	2971	2366	1605	1094
INDONESIA	0	0	0	0	113	0	116	0	5041	3091	5648	3532	0	0	0	0	759	586	716	315
KOREA, REP. OF	0	37	0	52	389	381	1359	943	785	1062	1166	1730	0	133	0	182	8889	19042	7625	14850
MALAYSIA	1	0	8	0	0	4	0	20	1	0	7	0	0	0	0	0	15	52	27	72
PAKISTAN	0	19	0	32	21	347	27	593	44	42	19	55	0	37	0	44	430	1434	174	665
PHILIPPINES	10	8	33	20	200	470	332	746	925	1593	7832	13467	5	7	6	12	4634	5212	5713	5259
SINGAPORE	1	0	8	0	5	339	21	168	526	216	528	265	1	40	2	27	292	599	1810	514
TAIWAN	2	262	4	353	787	1782	1220	1877	4567	3366	5084	4016	309	969	265	802	13108	13198	9585	9513
THAILAND	100	56	143	76	22	48	31	69	199	299	383	654	0	0	0	0	1948	11698	1046	4984
TOTAL OTHER ASIA	231	527	300	755	2776	4202	5273	6039	14724	12838	24581	28449	513	1275	465	1180	41919	63501	33370	42662
CHINA, PRC	0	417	0	585	44600	760	36642	974	60	3	213	19	2511	5375	1222	3190	20012	39144	12202	21261
JAPAN	3	88	20	119	2421	3732	7222	9815	12687	15050	14654	18766	207	412	282	613	4002	4216	11197	12365
ALGERIA	0	0	0	0	0	0	0	0	2	0	8	0	0	0	0	0	0	1	0	4
AUSTRALIA	1303	392	1875	611	8524	8222	18433	17982	1569	1542	3559	3633	201	145	381	280	3678	6476	4813	10709
CAMEROON	0	0	0	0	80	132	141	196	0	0	0	0	0	0	0	0	0	0	0	0
EGYPT	0	0	0	0	1583	1611	1458	2003	869	88	668	144	0	0	0	0	6955	4708	4665	3224
IRAQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ISRAEL	70	10	173	12	3187	3055	3793	3744	7556	7913	7126	8822	9	3	9	6	1853	2158	1314	1517
JORDAN	0	57	0	104	35	1	68	3	0	0	0	0	0	0	0	0	0	0	6	0
KENYA	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	4	0
LEBANON	0	28	0	25	0	78	0	52	308	123	340	108	0	0	0	0	0	0	0	0
MOROCCO	0	0	0	0	913	1064	816	778	808	0	690	0	0	0	0	0	1663	507	851	230
MOZAMBIQUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW ZEALAND	0	6	0	39	975	2273	2262	4100	419	313	871	839	12	+	10	2	485	406	646	566
QATAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NIGERIA	28	0	11	0	1744	111	4224	91	0	10	0	13	42	0	15	0	69	567	124	386
SAUDI ARABIA	0	0	0	0	3	86	19	174	15	45	28	62	0	0	0	0	149	589	968	638
SOUTH AFRICA	34	190	53	306	219	415	621	1140	32	37	101	254	50	27	31	27	2460	320	1789	286
SUDAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	+
SYRIA	64	52	47	56	426	2170	306	2804	164	254	201	377	0	0	0	0	48	12	28	16
TANZANIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUNISIA	0	0	0	0	54	0	109	0	0	231	0	255	0	0	0	0	0	0	0	0
UNITED ARAB EMIRATES	0	0	0	0	0	0	0	0	1	0	8	0	0	0	0	0	6	0	40	0
ZAMBIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIMBABWE	0	0	0	0	21	9	55	29	0	0	0	0	0	0	0	0	19	341	13	278
OTHER	0	0	0	0	152	107	191	194	158	32	81	35	0	0	0	0	172	8	471	14
TOTAL M.E., A., & O.	1499	735	2159	1153	17966	19334	32496	33290	11901	10588	13683	14542	314	175	446	315	17558	16094	15732	17868
GRAND TOTAL	7346	6427	10116	9600	134750	96899	203096	189453	120822	134283	169021	208538	32566	34502	24022	25856	263914	365929	243282	307845

SOURCE: U.S. Census Bureau Report EM546.
The commodity numbers are:

+ Less than 1 thousand pounds.
A. 309.0110, .2210, 310.0004 & .0026.
B. 310.0005, .0007, .0010, .0014, .0029, .0034, .0040 & .0044.
C. 309.0120, .0140, .0170, .2220, .2270, 310.0027 & .0032.
D. 309.4219 & .4222.
E. 309.3220, .3240, .3250, .3255, .4240, .4242, .4245, .4246 & .4247.

TABLE 3:
U.S. EXPORTS OF MAN-MADE FIBERS

ITEM	COMMODITY NUMBER AS OF 1/1/87	THOUSAND POUNDS					THOUSAND DOLLARS				
		1983	1984	1985	1986	1987	1983	1984	1985	1986	1987
CELLULOSIC FIBERS											
FILAMENT YARN[a]											
TEXTURED	310.0004	239	129	101	102	614	502	337	298	242	1323
OTHER[b]	310.0026	15496	8614	10412	7002	5428	16908	10051	13859	9207	7768
MONOFILAMENTS	309.0110	43	12	79	228	285	135	66	178	651	413
STRIPS	309.2210	40	79	37	14	100	56	85	44	16	96
SUBTOTAL ABOVE		**15818**	**8834**	**10629**	**7436**	**6427**	**17601**	**10539**	**14379**	**10116**	9600
STAPLE+TOW-RAYON	309.4222	40118	53882	35975	30887	32781	27427	37688	25546	21840	23369
STAPLE-ACETATE	309.4219	3093	2090	1849	1679	1721	2677	2337	2535	2182	2487
SUBTOTAL ABOVE		**43211**	**55972**	**37824**	**32566**	**34502**	**30104**	**40025**	**28081**	**24022**	**25856**
WASTE, ADVANCED&NOT ADVANCED	309.7400	1363	1632	1207	2222	1090	527	1062	801	1822	939
NONCELLULOSIC FIBERS											
YARN - SINGLES											
NYLON - TEXTURED	310.005 & .0007	40008	32268	26894	24403	35048	58366	50916	39982	42863	64400
- HIGH TENACITY[c]	310.0027	55606	66732	69386	76870	78107	65036	62515	72294	81880	88840
- OTHER	310.0029	15580	13155	9357	10333	9142	33591	28217	19373	23099	22983
POLYESTER - TEXTURED	310.0010	64040	79753	135997	68753	25057	80399	93889	140792	69534	28774
- HIGH TENACITY[c]	310.0032	12237	9156	32137	23862	24961	15553	11064	29618	27087	29829
- OTHER[d]	310.0034	3713	5968	8934	2347	1794	6518	8371	9270	2410	2567
OTHER - TEXTURED	310.0014	12631	7673	10495	21122	18119	16139	12040	14470	27888	29402
- OLEFIN	310.0040	806	340	555	1708	940	1259	485	766	1740	1087
- OTHER	310.0044	3610	5261	7766	6084	6799	20983	26909	32505	35562	40240
MONOFILAMENTS, ALL DENIERS											
NYLON	309.0120	2350	2648	2364	5116	6663	10009	10435	9221	12901	16246
POLYESTER	309.0140	2925	3794	5759	6256	12294	7292	10141	14128	13387	21050
OTHER	309.0170	9930	11047	11955	4775	7453	19101	22912	17491	20821	33736
STRIPS	309.2220 & .2270	3242	4460	4204	3943	4805	5402	11398	13903	12945	18837
SUBTOTAL ABOVE		**226678**	**242455**	**325803**	**255572**	**231182**	**339708**	**349292**	**413813**	**372117**	**397991**
STAPLE - NYLON	309.4240	13518	14904	11100	15037	23447	21685	13854	17288	11610	24690
- POLYESTER	309.4242	101255	178903	176697	111270	168127	68307	116843	112222	68239	90039
- ACRYLIC	309.4245	114385	162285	150729	58397	67074	78572	114377	100146	40763	47571
- OLEFIN	309.4246	3698	4368	6974	14623	21433	2746	4088	5754	12670	17642
- OTHER	309.4247	11974	8555	10695	17410	35295	28331	30566	35401	57209	77415
GROUPED FILAMENTS											
NYLON	309.3220	3425	3048	1948	3701	5483	8766	8947	4635	9480	12681
POLYESTER[d]	309.3240	28890	23693	29155	21511	20573	25808	20749	23335	18135	18148
ACRYLIC	309.3250 & .3255	34621	33807	29214	21965	24497	28101	27202	24095	19498	19459
SUBTOTAL ABOVE		**311766**	**429563**	**416512**	**263914**	**365929**	**258488**	**344457**	**319442**	**243282**	**307845**
WASTE, ADVANCED&NOT ADVANCED											
- NYLON	309.7620	11841	12465	5601	8855	11686	6093	6494	3048	4441	6047
- POLYESTER	309.7630	40473	57371	46404	59265	56412	16090	22417	17722	24245	25423
- ACRYLIC	309.7640	2025	4620	4804	6399	9569	773	1365	1286	1372	3045
OTHER	309.7660	16942	15203	18836	49177	35860	6583	6385	6818	15315	12710
SUBTOTAL ABOVE		**71281**	**89659**	**75645**	**123696**	**113527**	**29539**	**36661**	**28874**	**45373**	**47225**
TOTAL MAN-MADE ABOVE		**670117**	**828115**	**867620**	**685316**	**752657**	**675967**	**782036**	**805390**	**696732**	**789456**
TEXTILE GLASS FIBER	309.2700 & .9700	39413	58101	58328	61160	85378	29553	56385	57787	66134	95496
GRAND TOTAL ABOVE		**709530**	**886216**	**925948**	**746476**	**838035**	**705520**	**838421**	**863177**	**762866**	884952

SOURCE: U.S. Census Bureau Report EM546.

a. Includes thrown, singles and plied yarn.

b. Includes rayon tire cord and cord fabric.

c. Includes noncellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

TABLE 4:
U.S. IMPORTS OF MAN-MADE FIBERS

ITEM	COMMODITY NUMBER AS OF 1/1/87	THOUSAND POUNDS					THOUSAND DOLLARS				
		1983	1984	1985	1986	1987	1983	1984	1985	1986	1987
CELLULOSIC FIBERS											
YARN - SINGLES											
TEXTURED	310.0106 & .0206	256	1571	190	518	305	290	940	267	610	511
OTHER	310.0130 & .0230[a]	7843	8245	12951	15669	12267	12365	12924	19129	24795	19226
MONOFILAMENTS	309.0310 & .0610	24	5	19	20	12	36	20	44	68	77
STRIPS, $1/LB & UNDER	309.2000*	570	160	763	756	227	396	88	624	646	196
SUBTOTAL ABOVE		8693	9981	13923	16963	12811	13087	13972	20064	26119	20010
STAPLE	309.4320 & .4325	12752	15388	11286	16453	12931	8434	10320	6844	12678	11128
GROUPED FILAMENTS	309.3010 & .3310	836	1605	1022	975	893	1312	2619	1471	1305	1600
SUBTOTAL ABOVE		13588	16993	12308	17428	13824	9746	12939	8315	13983	12728
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	277	530	479	121	85	164	323	263	79	25
NONCELLULOSIC FIBERS											
YARN - SINGLES											
TEXTURED - NYLON											
LESS THAN 450 DENIER	310.0107 & .0207	5123	17966	32352	2601	2035	8610	26141	35244	5025	4170
450 DENIER AND OVER	310.0108 & .0208				33994	26755				37305	29921
- POLYESTER	310.0110 & .0210	2182	10806	16642	14590	15580	2403	10513	14653	13029	15403
- OTHER	310.0114 & .0214	7659	8939	14723	20477	24088	8986	10536	15732	20187	23874
OTHER - NYLON	310.0149 & .0249	14745	30192	18350	22521	22839	17994	39222	23747	30781	36679
- POLYESTER	310.0150 & .0250	13629	15698	16728	22465	19425	17705	21121	20624	28831	25656
- OTHER	310.0170 & .0270[b]	2739	2468	2520	5130	6777	6730	4139	4203	7837	8804
MONOFILAMENTS	309.0200 & .0330[c]	1737	2857	2059	2722	3804	4721	8817	5537	8197	12236
STRIPS, OVER $1/LB	309.2100 & .2500*	553	1066	1187	1557	2627	3952	5844	5886	6487	8601
SUBTOTAL ABOVE		48367	89992	104561	126057	123930	71101	126333	125626	157679	165344
STAPLE - NYLON	309.4331 & .4351	27648	38281	38544	51959	38955	23588	36579	34292	26229	42829
- POLYESTER	309.4336 & .4361	21502	22890	26800	40785	70721	11912	13272	15841	13456	40278
- ACRYLIC	309.4366	13644	13541	17611	17442	15716	12052	12568	16396	7799	13096
- OLEFIN	309.4371	1195	2213	5732	1871	514	911	1630	3879	289	400
- OTHER	309.4341 & .4390	9078	15412	25516	14238	12992	7010	11326	21283	4258	12810
GROUPED FILAMENTS											
NYLON	309.3030 & .3200	19085	23129	29514	38536	32248	27142	33524	40769	58505	50546
POLYESTER	309.3040 & .3340	2035	7104	4980	2354	3139	2268	6569	4715	2392	3767
ACRYLIC	309.3050 & .3350	6642	6929	7518	13065	13000	13631	15116	16548	31792	31152
OTHER	309.3065 & .3365	663	1660	3231	2540	1700	742	2371	4313	3339	2991
SUBTOTAL ABOVE		101492	131159	159446	182790	188985	99256	132955	158036	148059	197869
WASTE, NOT ADVANCED											
- NYLON	309.6625	26745	31205	27162	22377	26926	11494	13876	10793	7755	8412
- POLYESTER	309.6630	13004	8042	7149	6304	9170	2503	1325	1143	878	1385
ACRYLIC	309.6645	304	39	283	328	306	76	8	48	182	70
- OTHER	309.6660	2724	4074	2072	8442	4666	1000	2027	607	2142	895
NOILS & GARNETTED FIBERS	309.7000*	232	458	155	164	162	82	254	101	123	83
OTHER WASTE, ADVANCED	309.7525 - .7555	3080	6729	3852	2688	5727	1219	1912	890	702	1894
SUBTOTAL ABOVE		46089	50547	40673	40303	46957	16374	19402	13582	11782	12739
TOTAL MAN-MADE ABOVE		218506	299202	331390	383662	386592	209728	305924	325886	357701	408715
OTHER MAN-MADE FIBER TOPS, YARN & THREAD											
YARN - PLIED											
TEXTURED - CELLULOSIC	310.1506	1	1	1	1	5	4	7	7	15	44
- NONCELLULOSIC	310.1015[d]& .1205[e]	8110	12223	9270	10221	3999	11709	17370	9955	11926	6471
OTHER - CELLULOSIC	310.1030 & .1535[f]	93	173	390	478	553	351	723	937	1932	2622
- NONCELLULOSIC	310.1050 & .1070[g]	2054	2763	4032	4857	3314	3594	4447	6795	10007	7441
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	1091	1724	1739	1879	1541	1975	2224	2100	3105	3199
- OTHER	310.4015 & .4027[i]	31487	35583	34260	44691	37128	51623	58127	54897	75910	68943
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2955	7517	8912	16759	28029	10969	16210	15640	28555	46150
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	2654	5445	9283	4593	8338	11898	18111	28952	13846	31339
SLIVER, TOPS & ROVING	309.9000	4755	4544	1941	3298	5537	5193	4792	2334	4467	7085
TEXTILE GLASS FIBER	309.2800 & .2900[k]	20020	23083	34690	24404	29465	13878	19203	27850	23082	29283
GRAND TOTAL ABOVE		291726	392258	435908	494843	504501	320922	447138	475353	530546	611292

Source: U.S. Census Bureau Report IM146.

NES - Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

[a] Also includes 310.0610.

[b] Also includes 310.0530, .0550, .0630 & .0650.

[c] Also includes 309.0340, .0365, .0500, .0630. .0640 & .0665.

[d] There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

[e] Also includes 310.1210

[f] Also includes 310.2110.

[g] Also includes 310.1510, .1514, .1550, .1555, .1570, .2030, .2050, .2130 & .2150.

[h] Also includes 310.5005 & .5030

[i] Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

[j] Also includes 310.9320 & .9500.

[k] Chiefly roving. Also includes 309.9800 & .9900.

TABLE 5:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	A. NONCELLULOSIC YARN-SINGLES						B. NONCELLULOSIC STAPLE +TOW								C. SPUN YARNS				D. WASTE				E. TEXTILE GLASS	
	NYLON		POLYESTER		OTHER		NYLON		POLYESTER		ACRYLIC		OTHER		CELL.		NONCELL.		CELL.		NONCELL.			
COUNTRY	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987
AUSTRIA	+	0	20	32	779	28	0	9	0	0	+	0	551	2227	1254	934	246	68	0	0	0	0	0	0
BELGIUM/LUX.	4798	3023	117	173	9095	9299	294	54	0	+	117	142	72	3	0	0	216	1	0	0	610	772	28	611
DENMARK	+	0	+	+	0	0	0	0	35	20	0	0	154	137	0	0	0	1	0	0	0	0	0	0
FINLAND	0	0	0	0	0	0	0	0	0	0	0	0	18	38	0	0	100	82	0	0	0	0	0	0
FRANCE	7708	5598	61	147	54	9	8779	7434	558	393	129	122	845	112	0	3	951	369	6	1	1128	1160	98	167
GERMANY, FED. REP.	12689	11213	7498	7557	435	3228	21950	16999	348	6557	5312	7057	2510	1308	83	31	2913	2144	0	0	1939	3183	20	133
GREECE	0	0	0	0	3	2	0	0	0	0	12	0	0	0	0	0	1402	1811	0	0	0	0	1	0
IRELAND	108	25	0	+	399	239	3	0	364	2086	1	0	134	0	1	0	20	+	0	0	23	14	0	0
ITALY	11743	11988	144	230	373	178	18443	9923	76	4	2008	1936	1150	1024	58	22	9113	9651	+	0	0	0	86	242
NETHERLANDS	601	922	455	126	128	34	192	+	2	1	0	15	1	0	0	0	90	0	0	0	533	2360	0	420
PORTUGAL	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	768	362	0	0	0	0	0	0
SPAIN	0	0	0	0	1	302	1	0	0	+	97	425	17	1	10	24	226	900	0	0	41	144	0	0
SWITZERLAND	379	76	49	141	4	261	674	666	1	6	18	254	178	304	0	0	107	40	0	0	104	93	27	0
UNITED KINGDOM	6315	7305	51	220	901	814	15704	8638	473	192	4152	5620	1213	554	0	0	1321	839	76	0	742	3830	2345	7264
OTHER	52	24[a]	16	126[c]	0	67[f]	50	1[i]	+	38[j]	101	0	30	0	0	0	689	608[o]	0	0	0	0	0	437[t]
TOTAL WEST EUROPE	44393	40174	8411	8752	12172	14461	66091	43726	1857	9297	11947	15571	6873	5708	1406	1014	18162	16876	82	1	5120	11556	2605	9274
POLAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROMANIA	75	0	563	166	0	0	2042	3866	396	504	175	104	92	0	0	0	3195	3217	0	0	0	144	0	0
OTHER	86	0	0	0	48	0	0	0	4	0	0	0	237	0	0	0	1664	1254[p]	0	0	0	0	0	+[u]
TOTAL EAST EUROPE	161	0	563	166	48	0	2042	3866	400	504	175	104	329	0	0	0	4859	4471	0	0	0	144	0	+
ARGENTINA	82	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	619	717	0	0
BRAZIL	0	0	0	0	6	1	0	0	0	1275	0	0	610	423	0	5	472	292	0	0	0	0	0	0
CANADA	4829	2454	1047	656	11616	14719	13731	16476	8379	11447	76	0	3105	1401	2	0	1218	894	0	84	12845	12299	1967	3907
COSTA RICA	0	0	6558	6723	0	0	0	0	75	91	0	0	0	0	0	0	0	0	0	0	131	34	0	0
MEXICO	5727	5928	8119	13063	604	852	6163	5179	3565	10828	5693	3843	127	530	0	0	2184	2127	0	0	10264	9189	9	0
OTHER	0	0	183	1[d]	88	223[g]	14	0	0	+[k]	0	0	0	0	0	0	548	599[q]	0	0	125	0	162	0
TOTAL OTHER AMERICA	10638	8521	15907	20443	12314	15795	19908	21655	12019	23641	5769	3843	3842	2354	2	5	4422	3912	0	84	23984	22239	2138	3907
BANGLADESH	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HONG KONG	0	0	+	0	0	0	48	109	17	9	0	0	0	0	0	0	197	108	0	0	0	0	0	0
INDONESIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	659	575	0	0	0	0	0	0
KOREA, REP. OF	15	0	51	2	43	23	0	22	5397	11438	+	8976	145	214	0	0	593	360	0	0	49	3082	3	0
MALAYSIA	0	0	0	0	0	0	0	0	286	563	0	43	0	0	0	0	1477	1084	0	0	6	0	6	0
PHILIPPINES	0	0	0	27	0	0	0	0	0	0	2	2	+	+	0	0	1603	554	0	0	0	0	0	0
SINGAPORE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1640	1009	0	0	0	0	0	0
TAIWAN	380	159	202	64	1	16	79	202	14774	18291	171	0	5286	4155	0	0	561	81	0	0	169	86	479	40
THAILAND	0	0	0	4	0	0	0	0	0	0	0	0	138	0	0	0	872	739	0	0	0	0	0	0
OTHER	0	0	94	0	0	0	0	0	0	2[l]	0	0	0	0	0	2[n]	38	117[r]	0	0	0	0	0	0
TOTAL OTHER ASIA	395	159	347	117	44	45	127	333	20474	30303	173	9021	5569	4369	0	2	7640	4627	0	0	224	3168	488	40
CHINA, P.R.C.	0	0	0	390	60	0	0	17	117	0	0	0	0	11	0	0	2413	2552	0	0	5092	2704	0	0
JAPAN	153	126	5721	5019	962	549	567	1312	7965	9999	12340	177	1944	2699	442	520	4631	4106	0	0	2405	3545	19137	16244
AUSTRALIA	134	0	0	0	0	0	660	185	279	33	0	0	40	0	0	0	0	0	0	0	1982	1595	0	0
EGYPT	0	0	+	0	0	0	0	0	0	0	0	0	0	8	0	0	920	231	0	0	0	0	0	0
ISRAEL	2982	2616	90	30	6	15	334	109	28	0	103	0	0	57	0	0	177	179	39	0	985	1972	0	0
NEW ZEALAND	+	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SOUTH AFRICA	260	0	6016	88	0	0	736	0	0	0	0	0	52	0	0	0	964	39	0	0	511	34	0	0
OTHER	0	33[b]	0	+[e]	1	+[h]	30	0	0	83[m]	0	0	0	0	29	0	503	135[s]	0	0	+	0	36	0
TOTAL M.E., A., & O.	3376	2649	6106	118	7	15	1760	294	307	116	103	0	92	65	29	0	2564	584	39	0	3478	3601	36	0
GRAND TOTAL	59116	51629	37055	35005	25607	30865	90495	71203	43139	73860	30507	28716	18649	15206	1879	1541	44691	37128	121	85	40303	46957	24404	29465

SEE FOOTNOTES PAGE 29 OPPOSITE.

GRAPH 1:
IMPORTS VS. EXPORTS OF MAN-MADE FIBER

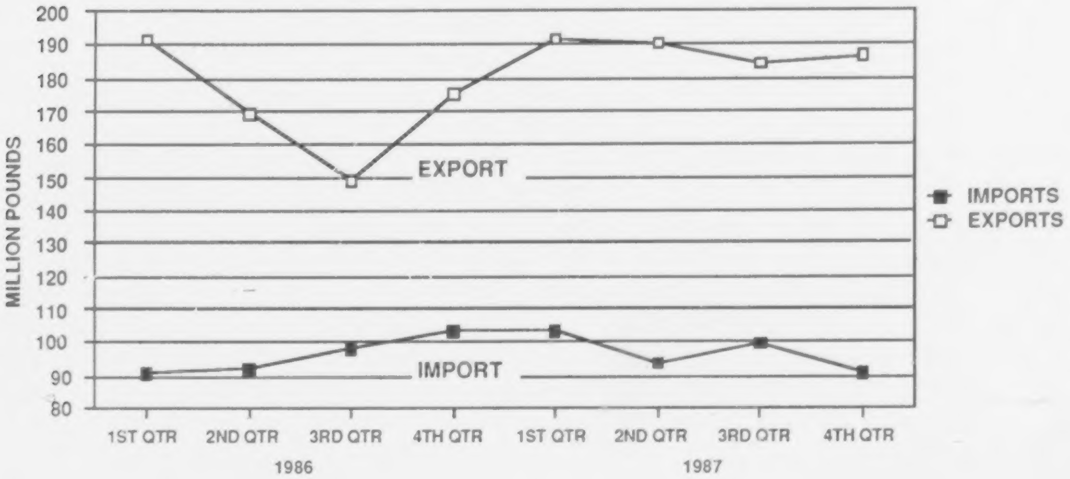

TABLE 6:
MAN-MADE FIBER QUARTERLY TRADE BALANCE
MILLION POUNDS

	CELLULOSIC YARN & MONOFIL			CELLULOSIC STAPLE+TOW			NONCELLULOSIC YARN & MONOFIL			NONCELLULOSIC STAPLE+TOW			CELLULOSIC WASTE			NONCELLULOSIC WASTE			TOTAL		
	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL	IMP	EXP	BAL
1986																					
1ST QUARTER	4.2	1.7	-2.5	4.2	10.5	+6.3	25.6	76.3	+50.7	46.0	72.9	+26.9	+	0.5	+0.5	10.7	30.0	+19.3	90.7	191.9	+101.2
2ND QUARTER	4.9	2.1	-2.8	3.9	5.3	+1.4	29.6	70.2	+40.6	42.9	59.5	+16.6	+	0.6	+0.6	10.5	31.4	+20.9	91.8	169.1	+77.3
3RD QUARTER	3.7	1.8	-1.9	4.9	7.8	+2.9	33.7	55.0	+21.3	46.1	57.1	+11.0	+	0.6	+0.6	9.5	26.6	+17.1	97.9	148.9	+51.0
4TH QUARTER	4.2	1.7	-2.5	4.4	9.0	+4.6	37.2	54.1	+16.9	47.8	74.3	+26.5	0.1	0.6	+0.5	9.6	35.7	+26.1	103.3	175.4	+72.1
TOTAL	17.0	7.3	-9.7	17.4	32.6	+15.2	126.1	255.6	+129.5	182.8	263.8	+81.0	0.1	2.3	+2.2	40.3	123.7	+83.4	383.7	685.3	+301.6
1987																					
1ST QUARTER	3.0	1.8	-1.2	4.1	9.1	+5.0	34.1	55.2	+21.1	48.9	94.7	+45.8	0	0.4	+0.4	13.0	30.7	+17.7	103.1	191.9	+88.8
2ND QUARTER	2.5	1.5	-1.0	3.9	8.5	+4.6	29.0	57.3	+28.3	46.1	93.9	+47.8	+	0.2	+0.2	11.9	28.9	+17.0	93.4	190.3	+96.9
3RD QUARTER	2.8	1.4	-1.4	3.0	13.2	+10.2	30.8	60.1	+29.3	52.4	85.2	+32.8	0	0.2	+0.2	10.6	23.8	+13.2	99.6	183.9	+84.3
4TH QUARTER	4.5	1.7	-2.8	2.8	3.8	+1.0	30.0	58.6	+28.6	41.6	92.2	+50.6	0.1	0.2	+0.1	11.5	30.1	+18.6	90.5	186.6	+96.1
TOTAL	12.8	6.4	-6.4	13.8	34.6	+20.8	123.9	231.2	+107.3	189.0	366.0	+177.0	0.1	1.0	+0.9	47.0	113.5	+66.5	386.6	752.7	+366.1

SOURCES: The fiber import and export data are from the U.S. Bureau of the Census (Reports IM145X and EM522).

FOOTNOTES FOR TABLE 5 PAGE 28

SOURCE: U.S. Census Bureau IM146.

- + Less than 1 thousand pounds.
- A. Nylon 310.0107, .0108, .0149, .0207, .0208 & .0249; Polyester 310.0110, .0150, .0210 & .0250; Other 310.0114, .0170, .0214, .0270, .0530, .0550, .0630 & .0650.
- B. Nylon 309.3030, .3200, .4331 & .4351; Polyester 309.3040, .3340, .4336 & .4361; Acrylic 309.3050, .3350 & .4366; Other 309.3065, .3365, .4341, 4371 & 4390.
- C. Cellulosic 310.4005, .4030, .5005 & .5030; Noncellulosic 310.4015, .4027, .4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.
- D. Cellulosic 309.6615 & .7510; Noncellulosic 309.6625, .6630, .6645, .6660, .7000, .7525, .7530, .7540 & .7555.
- E. 309.2800, .2900, .9800 & .9900.
- a. Turkey 24.
- b. Morocco 33.
- c. Turkey 126.
- d. Guatemala 1.
- e. Nigeria.
- f. Turkey 35, Norway 31, Sweden 1.
- g. Chile 223, El Salvador.
- h. Mozambique.
- i. Sweden 1.
- j. Turkey 38.
- k. N. Antil.
- l. India 2.
- m. Iran 83.
- n. India 2.
- o. Turkey 604, Norway 3, Sweden 1.
- p. Hungary 817, Yugoslavia 437.
- q. Honduras 325, El Salvador 216, Venezuela 58.
- r. Pakistan 117, India.
- s. Mauritius 135.
- t. Norway 437.
- u. Yugoslavia.

TABLE 7:
QUARTERLY U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

PRODUCTS	2ND QUARTER 1986			3RD QUARTER 1986			4TH QUARTER 1986			1ST QUARTER 1987			2ND QUARTER 1987			3RD QUARTER 1987			4TH QUARTER 1987		
	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]
RAYON & ACETATE																					
YARN+MONOFILAMENTS	4.9	2.1	2.8 I	3.7	1.8	1.9 I	4.2	1.7	2.5 I	3.0	1.8	1.2 I	2.5	1.5	1.0 I	2.8	1.4	1.4 I	4.5	1.7	2.8 I
STAPLE+TOW	3.9	5.3	1.4 E	4.9	7.8	2.9 E	4.4	9.0	4.6 E	4.1	9.1	5.0 E	3.9	8.5	4.6 E	3.0	13.2	10.2 E	2.8	3.8	1.0 E
WASTE	+	0.6	0.6 E	+	0.6	0.6 E	0.1	0.6	0.5 E	0	0.4	0.4 E	+	0.2	0.2 E	0	0.2	0.2 E	0.1	0.2	0.1 E
SUBTOTAL	**8.8**	**8.0**	**0.8 I**	**8.6**	**10.2**	**1.6 E**	**8.7**	**11.3**	**2.6 E**	**7.1**	**11.3**	**4.2 E**	**6.4**	**10.2**	**3.8 E**	**5.8**	**14.8**	**9.0 E**	**7.4**	**5.7**	**1.7 I**
NONCELLULOSIC FIBERS																					
YARN+MONOFILAMENTS	29.6	70.2	40.6 E	33.7	55.0	21.3 E	37.2	54.1	16.9 E	34.1	55.2	21.1 E	29.0	57.3	28.3 E	30.8	60.1	29.3 E	30.0	58.6	28.6 E
STAPLE+TOW	42.9	59.5	16.6 E	46.1	57.1	11.0 E	47.8	74.3	26.5 E	48.9	94.7	45.8 E	46.1	93.9	47.8 E	52.4	85.2	32.8 E	41.6	92.2	50.6 E
WASTE	10.5	31.4	20.9 E	9.5	26.6	17.1 E	9.6	35.7	26.1 E	13.0	30.7	17.7 E	11.9	28.9	17.0 E	10.6	23.8	13.2 E	11.5	30.1	18.6 E
SUBTOTAL	**83.0**	**161.1**	**78.1 E**	**89.3**	**138.7**	**49.4 E**	**94.6**	**164.1**	**69.5 E**	**96.0**	**180.6**	**84.6 E**	**87.0**	**180.1**	**93.1 E**	**93.8**	**169.1**	**75.3 E**	**83.1**	**180.9**	**97.8 E**
TOTAL FIBER ABOVE	**91.8**	**169.1**	**77.3 E**	**97.9**	**148.9**	**51.0 E**	**103.3**	**175.4**	**72.1 E**	**103.1**	**191.9**	**88.8 E**	**93.4**	**190.3**	**96.9 E**	**99.6**	**183.9**	**84.3 E**	**90.5**	**186.6**	**96.1 E**
MAN-MADE FIBER MANUFACTURES																					
SLIVER, TOPS & ROVING	0.8	1.1	0.3 E	0.9	0.8	0.1 I	[illegible]	1.3	0.6 E	1.0	1.1	0.1 E	2.4	1.1	1.3 I	1.6	1.5	0.1 I	0.8	1.5	0.7 E
SPUN YARNS	16.9	11.8	5.1 I	18.9	7.2	11.7 I	16.4	9.0	7.4 I	14.5	8.2	6.3 I	18.3	11.2	7.1 I	16.4	9.6	6.8 I	14.3	13.8	0.5 I
THREAD & CRAFT YARNS	1.3	1.4	0.1 E	1.2	0.9	0.3 I	0.9	1.7	0.8 E	2.3	1.5	0.8 I	2.3	2.0	0.3 I	2.3	1.2	1.1 I	2.0	1.3	0.7 I
TIRE CORD & FABRIC	0.7	12.8	12.1 E	0.6	9.0	8.4 E	0.8	12.8	12.0 E	0.9	13.6	12.7 E	1.4	14.8	13.4 E	1.5	13.0	11.5 E	1.8	12.4	10.6 E
WOVEN FABRIC	60.4	32.3	28.1 I	53.3	36.8	16.5 I	41.0	35.3	5.7 I	42.6	33.9	8.7 I	50.2	42.7	7.5 I	47.3	36.6	10.7 I	42.4	39.4	3.0 I
KNIT FABRIC	2.3	3.1	0.8 E	3.5	2.9	0.6 I	4.3	2.9	1.4 I	4.8	2.5	2.3 I	3.9	3.2	0.7 I	2.6	2.8	0.2 E	3.3	3.1	0.2 I
NARROW FABRIC	7.3	10.5	3.2 E	5.9	9.3	3.4 E	5.1	9.9	4.8 E	3.3	10.6	7.3 E	4.1	11.5	7.4 E	4.0	11.3	7.3 E	3.2	12.0	8.8 E
APPAREL - KNIT	112.1	19.1	207.7 I	149.3	19.4	266.4 I	87.9	19.8	184.5 I	95.4	19.7	224.0 I	139.1	21.1	256.0 I	162.5	20.4	285.5 I	88.3	21.3	185.1 I
- NOT KNIT	114.7			136.5			116.4			148.3			138.0			143.4			118.1		
HOME FURNISHINGS	115.4	20.7	75.5 I	108.2	18.5	68.6 I	114.5	29.9	62.8 I	111.3	22.3	67.9 I	128.6	27.9	77.1 I	128.8	24.3	81.9 I	108.1	26.5	57.9 I
OTHER		19.2			21.1			21.8			21.1			23.6			22.6			23.7	
TOTAL MANUFACTURES	**431.9**	**132.0**	**299.9 I**	**478.3**	**125.9**	**352.4 I**	**388.0**	**144.4**	**243.6 I**	**424.4**	**134.5**	**289.9 I**	**488.3**	**159.1**	**329.2 I**	**510.4**	**143.3**	**367.1 I**	**382.3**	**155.0**	**227.3 I**
TOTAL MAN-MADE FIBER & MANUFACTURES	**523.7**	**301.1**	**222.6 I**	**576.2**	**274.8**	**301.6 I**	**491.3**	**319.8**	**171.5 I**	**527.5**	**326.4**	**201.1 I**	**581.7**	**349.4**	**232.3 I**	**610.0**	**327.2**	**282.8 I**	**472.8**	**341.6**	**131.2 I**
COTTON MANUFACTURES	**463.1**	**70.3**	**392.8 I**	**486.0**	**68.5**	**417.5 I**	**449.3**	**78.7**	**370.6 I**	**600.1**	**72.5**	**527.6 I**	**563.9**	**74.2**	**489.7 I**	**606.5**	**74.5**	**532.0 I**	**565.1**	**76.8**	**488.3 I**
WOOL MANUFACTURES	**67.4**	**4.7**	**62.7 I**	**93.3**	**3.2**	**90.1 I**	**66.4**	**4.4**	**62.0 I**	**51.5**	**4.4**	**47.1 I**	**76.6**	**5.8**	**70.8 I**	**92.5**	**6.1**	**86.4 I**	**55.5**	**7.1**	**48.4 I**

SOURCE: The man-made fiber import and export data are from the U.S.Census Bureau Reports IM146 and EM546. The man-made, cotton and wool manufactures data are from U.S. Department of Agriculture *"Cotton and Wool Outlook Situation."*

The total man-made fiber and manufactures import, export and balance data of this table cover the cellulosic and noncellulosic fibers only. Textile glass fiber is excluded.

a. E Export Balance; I Import Balance.

TABLE 8:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEMS & COUNTRY	1987												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	138	0	43	42	21	0	0	0	0	0	0	244	30
BRAZIL	86	29	0	28	54	88	29	44	64	134	28	38	622	333
CANADA	425	368	175	323	285	70	137	180	248	301	307	413	3232	4751
GERMANY, FED. REP.	442	229	561	363	332	352	370	499	426	588	329	416	4907	6029
JAPAN	209	10	39	39	6	38	66	16	63	94	0	1070	1650	545
MEXICO	3	15	10	102	28	18	58	111	104	44	99	37	629	945
NETHERLANDS	101	43	105	147	38	40	42	176	63	127	151	172	1205	2708
ALL OTHER COUNTRIES [a]	1	3	1	0	1	27	14	80	30	55	103	7	322	1622
TOTAL CELLULOSIC YARN	1267	835	891	1045	786	654	716	1106	998	1343	1017	2153	12811	16963
CELLULOSIC STAPLE+TOW														
CANADA	749	1188	1356	1230	841	1185	420	1115	885	687	944	353	10953	12872
ITALY	88	0	59	51	61	35	78	149	66	36	101	32	756	455
JAPAN	59	168	168	18	98	61	59	60	94	99	78	139	1101	1021
SWEDEN	43	0	0	48	89	39	0	0	0	110	0	128	457	579
UNITED KINGDOM	46	5	73	24	0	41	42	27	41	22	3	64	388	715
ALL OTHER COUNTRIES [b]	0	63	4	7	0	36	5	0	0	11	+	43	169	2086
TOTAL CELLULOSIC STAPLE+TOW	985	1424	1660	1378	1089	1397	604	1351	1086	965	1126	759	13824	17428
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1408	1377	559	560	653	849	671	2122	893	1220	1001	1216	12529	14011
CANADA	890	1976	1613	1605	1802	1214	1426	1726	1624	1210	1313	1536	17935	17549
CHINA, PRC	0	0	94	0	267	30	0	0	0	0	0	0	391	60
COSTA RICA	729	515	642	589	590	564	585	489	510	475	557	478	6723	6486
DENMARK	31	62	0	0	32	30	30	0	30	0	0	0	215	214
FRANCE	686	685	659	648	306	678	331	91	72	550	717	408	5831	7981
GERMANY, FED. REP.	1744	2397	2421	2740	1373	1347	2176	2052	1900	1851	1654	1872	23527	22025
IRELAND	81	58	0	0	106	79	54	0	35	34	1	15	463	546
ISRAEL	162	233	90	249	321	97	165	300	228	296	310	209	2660	3095
ITALY	1202	866	1292	1254	940	985	1020	394	1748	1446	875	661	12683	12394
JAPAN	992	570	670	661	525	548	523	691	492	408	531	371	6982	7897
KOREA, REP. OF	41	21	22	20	60	25	25	25	72	46	46	45	448	288
MEXICO	1167	2037	2527	1939	1660	871	1829	1268	1757	2087	1605	1728	20475	14492
NETHERLANDS	93	184	151	99	61	62	154	90	83	62	+	45	1084	1183
SINGAPORE	73	0	66	44	21	23	49	55	0	66	33	55	485	170
SWITZERLAND	253	2	64	2	9	1	15	+	2	44	39	76	507	461
TAIWAN	14	39	63	46	34	116	104	89	106	57	32	71	771	892
UNITED KINGDOM	735	596	844	894	483	670	610	773	821	762	650	677	8515	7450
ALL OTHER COUNTRIES [c]	151	142	119	144	48	86	194	226	41	269	141	145	1706	8863
TOTAL NONCELLULOSIC YARN	10452	11760	11896	11494	9291	8275	9961	10391	10414	10883	9505	9608	123930	126057
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	61	18	130	177	38	312	274	287	240	353	285	80	2255	411
BELGIUM	21	36	18	18	53	1	+	17	0	15	+	2	181	485
BRAZIL	0	438	236	379	262	297	0	61	0	0	0	25	1698	608
CANADA	3125	3071	3201	2248	2236	2507	2725	1771	2893	2263	1748	1532	29320	25290
FRANCE	955	588	532	585	520	1193	279	766	639	469	764	660	7950	10313
GERMANY, FED. REP.	2586	2359	2194	2463	1766	1951	2805	3147	4935	3892	1964	1858	31920	30119
IRELAND	109	0	0	0	0	344	91	122	394	403	116	290	1869	501
ISRAEL	62	0	31	0	291	36	0	36	1	0	0	3	460	465
ITALY	2265	1688	2200	980	344	1183	100	853	1304	1220	317	332	12786	21678
JAPAN	1849	1582	2230	2472	1577	2390	1698	2317	1574	2185	1218	2248	23340	22815
KOREA, REP. OF	935	947	655	614	1247	956	1106	1254	819	1053	898	1232	11716	5542
MALAYSIA	48	95	0	95	87	95	0	48	48	0	48	0	564	286
MEXICO	1586	1232	1784	824	2080	1303	3161	3339	2043	1279	1149	565	20345	15549
ROMANIA	372	58	590	88	516	749	339	615	271	303	159	406	4466	2654
SWITZERLAND	71	152	198	89	17	70	66	34	96	85	138	214	1230	872
TAIWAN	1911	1559	1338	2580	1985	2003	1774	2390	2019	1521	2132	1403	22615	20309
UNITED KINGDOM	777	1280	1522	1264	1635	1032	953	1339	687	1474	1376	1663	15002	21541
ALL OTHER COUNTRIES [d]	24	13	135	72	103	7	80	85	475	74	86	114	1268	3352
TOTAL NONCELLULOSIC STAPLE+TOW	16757	15116	16994	14948	14757	16429	15451	18481	18438	16589	12398	12627	188985	182790

+ Less than 1 thousand pounds.

[a] Korea, Rep. of 104, Italy 79, Taiwan 57, Hong Kong 39, France 20, Singapore 15, Australia 5, United Kingdom 2, Belgium 1.

[b] Austria 116, Germany, Fed. Rep. 26, Mexico 9, France 8, Venezuela 4, Finland 3, Brazil 2, Belgium 1.

[c] Spain 302, Turkey 184, Romania 166, Chile 155, Australia 148, Argentina 139, Sweden 111, New Zealand 110, South Africa 88, Finland 61, Austria 55, Iran 39, Morocco 33, Norway 32, Philippines 27, Brazil 19, Thailand 16, Greece 12, Bangladesh 6, Guatemala 1, Iceland 1, Mozambique 1, El Salvador, Hong Kong

[d] Spain 425, Australia 262, Denmark 157, Hong Kong 118, Costa Rica 91, Iran 83, Turkey 39, Finland 38, China, PRC 28, Netherlands 16, Egypt 7, Portugal 2, India 1, Sweden 1, N. Antil., Philippines.

TABLE 9:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1987												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
CELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	29	139	0	45	57	20	0	0	0	15	0	0	305	518
OTHER	310.0130 & .0230[a]	1237	691	891	1000	729	607	704	1026	969	1279	1007	2127	12267	15669
MONOFILAMENTS	309.0310 & .0610	0	5	0	0	0	0	0	+	0	0	0	7	12	20
STRIPS, $1/LB & UNDER	309.2000*	1	0	0	0	0	27	12	80	29	49	10	19	227	756
SUBTOTAL ABOVE		**1267**	**835**	**891**	**1045**	**786**	**654**	**716**	**1106**	**998**	**1343**	**1017**	**2153**	**12811**	**16963**
STAPLE	309.4320 & .4325	867	1402	1569	1336	1072	1397	542	1116	968	895	1108	659	12931	16453
GROUPED FILAMENTS	309.3010 & .3310	118	22	91	42	17	0	62	235	118	70	18	100	893	975
SUBTOTAL ABOVE		**985**	**1424**	**1660**	**1378**	**1089**	**1397**	**604**	**1351**	**1086**	**965**	**1126**	**759**	**13824**	**17428**
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	0	0	0	7	0	21	0	0	0	0	30	27	85	121
NONCELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	142	163	113	123	147	150	188	228	170	243	227	141	2035	2601
450 DENIER AND OVER	310.0108 & .0208	2592	2933	3169	3131	1822	1660	1917	1752	2810	2121	1779	1069	26755	33994
- POLYESTER	310.0110 & .0210	1000	2243	1670	1399	1016	650	1165	1062	1102	1306	1338	1629	15580	14590
- OTHER	310.0114 & .0214	1876	2010	1396	1300	1785	1867	1595	3246	1980	2170	2026	2837	24088	20477
OTHER - NYLON	310.0149 & .0249	2008	2121	2350	2348	1695	1694	2086	1757	2033	2030	1626	1091	22839	22521
- POLYESTER	310.0150 & .0250	1918	1327	2088	2006	1590	1438	1693	1191	1329	1731	1514	1600	19425	22465
- OTHER	310.0170 & .0270[b]	445	486	610	680	713	358	725	622	443	523	550	622	6777	5130
MONOFILAMENTS	309.0200 & .0330[c]	272	281	265	263	354	297	329	310	336	461	315	321	3804	2722
STRIPS, OVER $1/LB	309.2100 & .2500*	199	196	235	244	169	161	263	223	211	298	130	298	2627	1557
SUBTOTAL ABOVE		**10452**	**11760**	**11896**	**11494**	**9291**	**8275**	**9961**	**10391**	**10414**	**10883**	**9505**	**9608**	**123930**	**126057**
STAPLE - NYLON	309.4331 & .4351	5346	4106	5357	3521	2137	3037	1984	3374	3202	3621	1485	1785	38955	51959
- POLYESTER	309.4336 & .4361	5335	5030	5122	4833	6596	5980	6805	7910	8667	5973	4341	4129	70721	40785
- ACRYLIC	309.4366	1216	839	1202	1285	1073	1724	1521	1617	1516	1204	1335	1184	15716	17442
- OLEFIN	309.4371	2	153	42	38	21	28	37	41	77	8	44	23	514	1871
- OTHER	309.4341 & .4390	479	904	1233	1011	918	1567	1152	1261	1103	1477	930	957	12992	14238
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3012	2523	2383	2409	2436	2723	2548	2867	2765	2939	3110	2533	32248	38536
POLYESTER	309.3040 & .3340	367	279	441	383	260	145	297	53	149	160	265	340	3139	2354
ACRYLIC	309.3050 & .3350	861	1144	1073	1290	1015	1104	947	1234	896	1128	811	1497	13000	13065
OTHER	309.3065 & .3365	139	138	141	178	301	121	160	124	63	79	77	179	1700	2540
SUBTOTAL ABOVE		**16757**	**15116**	**16994**	**14948**	**14757**	**16429**	**15451**	**18481**	**18438**	**16589**	**12398**	**12627**	**188985**	**182790**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2279	2182	3100	1454	2026	2732	2280	2160	2151	2042	2672	1848	26926	22377
- POLYESTER	309.6630	1077	823	1475	867	525	1035	377	688	321	828	695	459	9170	6304
- ACRYLIC	309.6645	20	53	0	18	41	0	18	53	29	38	19	17	306	328
- OTHER	309.6660	415	518	810	415	460	339	269	199	399	589	187	66	4666	8442
NOILS & GARNETTED FIBERS	309.7000*	0	0	0	0	0	31	0	0	31	0	0	100	162	164
OTHER WASTE, ADVANCED	309.7525 .7555	42	153	67	638	1016	243	848	551	266	730	645	528	5727	2688
SUBTOTAL ABOVE		**3833**	**3729**	**5452**	**3392**	**4068**	**4380**	**3792**	**3651**	**3197**	**4227**	**4218**	**3018**	**46957**	**40303**
TOTAL MAN-MADE ABOVE		33294	32864	36893	32264	29991	31156	30524	34980	34133	34007	28294	28192	386592	383662
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0	0	2	0	3	0	+	0	5	1
- NONCELLULOSIC	310.1015[d]& .1205[e]	142	337	528	392	440	487	299	322	381	220	205	246	3999	10221
OTHER - CELLULOSIC	310.1030 & .1535[f]	8	85	77	43	19	72	12	72	16	23	91	35	553	478
- NONCELLULOSIC	310.1050 & .1070[g]	336	339	306	285	157	214	252	266	289	269	282	319	3314	4857
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	151	112	165	134	60	143	165	222	77	130	58	124	1541	1879
- OTHER	310.4015 & .4027[i]	2574	3765	3067	3780	4318	3892	3561	2543	2389	2782	2216	2241	37128	44691
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	1493	1673	1629	2004	1943	2792	2993	2628	2849	3397	2456	2172	28029	16759
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	831	662	737	690	689	915	811	562	844	751	652	194	8338	4593
SLIVER, TOPS & ROVING	309.9000	383	279	281	607	585	1021	594	260	716	410	236	165	5537	3298
TEXTILE GLASS FIBER	309.2800 & .2900[k]	1431	1868	1653	2285	1279	2046	2459	4637	4240	2869	2458	2240	29465	24404
GRAND TOTAL ABOVE		40643	41984	45336	42484	39481	42738	41672	46492	45937	44858	36948	35928	504501	494843

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

+ Less than 1 thousand pounds.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

[a] Also includes 310.0610.

[b] Also includes 310.0530, .0550, .0630 & .0650.

[c] Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

[d] There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

[e] Also includes 310.1210.

[f] Also includes 310.2110.

[g] Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

[h] Also includes 310.5005 & .5030.

[i] Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

[j] Also includes 310.9320 & .9500.

[k] Chiefly roving. Also includes 309.9800 & .9900.

TABLE 10:
U.S. EXPORTS OF MAN-MADE FIBERS
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1987												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
CELLULOSIC FIBERS															
FILAMENT YARN[a]															
TEXTURED	310.0004	43	100	101	24	17	12	36	28	135	22	53	43	614	102
OTHER[b]	310.0026	475	365	639	468	654	306	503	372	260	335	388	663	5428	7002
MONOFILAMENTS	309.0110	0	0	0	2	0	+	39	0	34	93	76	41	285	228
STRIPS	309.2210	1	1	40	2	13	0	3	11	4	4	3	18	100	14
SUBTOTAL ABOVE		519	466	780	496	684	318	581	411	433	454	520	765	6427	7346
STAPLE+TOW-RAYON	309.4222	3930	1732	3107	2705	2582	2700	4047	4355	4372	1799	790	662	32781	30887
STAPLE-ACETATE	309.4219	33	112	156	112	215	164	144	96	159	121	290	119	1721	1679
SUBTOTAL ABOVE		3963	1844	3263	2817	2797	2864	4191	4451	4531	1920	1080	781	34502	32566
WASTE, ADVANCED&NOT ADVANCED	309.7400	231	169	47	134	52	35	50	113	12	133	73	41	1090	2222
NONCELLULOSIC FIBERS															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	2678	2441	2542	2077	2760	3503	2614	3644	3286	2496	3314	3693	35048	24403
- HIGH TENACITY[c]	310.0027	7294	6373	5419	6719	7072	5385	8394	8212	4926	7044	5594	5675	78107	76870
- OTHER	310.0029	636	684	605	753	883	1054	571	639	1020	851	709	737	9142	10333
POLYESTER - TEXTURED	310.0010	2151	2949	3145	2473	2079	1983	1523	1752	1467	1772	2212	1551	25057	58753
- HIGH TENACITY[c]	310.0032	1691	1913	2308	1475	1806	2286	3231	2612	2259	1942	1822	1616	24961	23862
- OTHER[d]	310.0034	160	233	152	75	201	161	122	139	112	115	160	164	1794	2347
OTHER - TEXTURED	310.0014	1053	1386	1502	1133	1406	1995	1520	1344	1405	1275	2168	1932	18119	21122
- OLEFIN	310.0040	74	35	53	55	16	72	18	157	88	69	80	223	940	1708
- OTHER	310.0044	389	577	654	748	445	737	488	433	405	458	848	617	6799	6084
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	416	687	641	417	553	676	370	621	556	668	699	359	6663	5116
POLYESTER	309.0140	322	523	524	587	1447	1142	954	1154	1429	1534	1774	904	12294	6256
OTHER	309.0170	478	492	875	480	718	656	502	617	628	911	419	677	7453	4775
STRIPS	309.2220 & .2270	259	424	470	342	537	360	203	375	346	664	369	456	4805	3943
SUBTOTAL ABOVE		17601	18717	18890	17334	19923	20010	20510	21699	17927	19799	20168	18604	231182	255572
STAPLE - NYLON	309.4240	2060	1757	2615	1445	2092	1258	1694	1315	1996	2238	2388	2589	23447	15037
- POLYESTER	309.4242	18819	17019	16575	14494	13960	15011	11006	13848	12834	13720	9565	11276	168127	111270
- ACRYLIC	309.4245	4792	3355	2531	2440	4482	5365	4746	4997	7953	10827	5603	9983	67074	58397
- OLEFIN	309.4246	1893	2016	2642	2075	1583	1203	1849	1701	2060	1332	1215	1864	21433	14623
- OTHER	309.4247	1004	3194	2027	2959	4586	7965	2919	1998	1925	2708	1981	2029	35295	17410
GROUPED FILAMENTS															
NYLON	309.3220	283	737	386	275	259	470	401	350	394	740	775	413	5483	3701
POLYESTER[d]	309.3240	1941	1832	1578	2318	1728	1811	1233	1095	1939	1769	1374	1955	20573	21511
ACRYLIC	309.3250 & .3255	1653	2207	1805	1980	2329	1768	2395	2116	2415	2159	2275	1395	24497	21965
SUBTOTAL ABOVE		32445	32117	30159	27986	31019	34851	26243	27420	31516	35493	25176	31504	365929	263914
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	1021	1143	1095	1164	1260	1066	225	892	641	843	1248	1088	11686	8855
- POLYESTER	309.7630	2830	4649	5303	5570	5293	4829	3927	4753	4135	5746	4865	4512	56412	59265
- ACRYLIC	309.7640	1086	1362	1545	432	428	701	456	681	664	631	660	923	9569	6399
- OTHER	309.7660	2543	3090	5034	2174	2633	3380	1485	2039	3866	3100	3696	2820	35860	49177
SUBTOTAL ABOVE		7480	10244	12977	9340	9614	9976	6093	8365	9306	10320	10469	9343	113527	123696
TOTAL MAN-MADE ABOVE		62239	63557	66116	58107	64089	68054	57668	62459	63725	68119	57486	61038	752657	685316
TEXTILE GLASS FIBER	309.2700 & .9700	5992	6585	7160	7265	7967	7821	6250	7599	6180	7515	7134	7910	85378	61160
GRAND TOTAL ABOVE		68231	70142	73276	65372	72056	75875	63918	70058	69905	75634	64620	68948	838035	746476

SOURCE: U.S. Census Bureau Report EM522

+ Less than 1 thousand pounds.

a. Includes thrown, singles and plied yarn.

b. Includes rayon tire cord and cord fabric.

c. Includes noncellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

TABLE 11:
QUARTERLY MAN-MADE FIBER DATA

MILLION POUNDS

ITEM	1985					1986					1987				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						YARN+MONOFILAMENTS									
CELLULOSIC YARN [d]															
PRODUCTION	52.8	54.5	48.4	48.9	204.6	54.3	54.7	54.1	51.7	214.8	46.2	46.7	45.2	53.0	191.1
SHIPMENTS - DOMESTIC	44.4	48.0	46.6	48.1	187.1	48.6	50.4	47.7	45.4	192.1	39.2	43.6	40.2	43.8	166.8
- EXPORT	7.3	6.0	4.6	5.1	23.0	4.7	5.1	4.9	5.5	20.2	5.0	5.9	6.1	7.9	24.9
TOTAL SHIPMENTS	51.7	54.0	51.2	53.2	210.1	53.3	55.5	52.6	50.9	212.3	44.2	49.5	46.3	51.7	191.7
ENDING STOCK	18.9	19.4	16.6	12.3		13.3	12.5	14.0	14.8		16.8	14.0	12.9	14.2	
IMPORTS	2.6	3.1	3.6	3.9	13.2	3.9	4.6	3.6	4.1	16.2	3.0	2.5	2.7	4.4	12.6
TOTAL AVAILABLE	47.0	51.1	50.2	52.0	200.3	52.5	55.0	51.3	49.5	208.3	42.2	46.1	42.9	48.2	179.4
NYLON															
PRODUCTION	370.8	360.3	386.7	397.0	1514.8	396.9	396.5	398.3	414.6	1606.3	414.1	427.5	432.9	422.7	1697.2
SHIPMENTS - DOMESTIC	323.7	353.0	368.9	371.8	1417.4	363.4	368.7	377.7	370.6	1480.4	389.3	394.8	405.8	364.4	1554.3
- EXPORT	33.5	25.0	33.3	26.6	118.4	26.7	28.2	25.1	32.8	112.8	32.1	37.9	33.7	35.8	139.5
TOTAL SHIPMENTS	357.2	378.0	402.2	398.4	1535.8	390.1	396.9	402.8	403.4	1593.2	421.4	432.7	439.5	400.2	1693.8
ENDING STOCK	154.3	136.6	121.1	119.7		126.5	126.1	121.6	132.8		125.5	120.3	113.7	136.2	
OLEFIN [a]															
PRODUCTION	231.6	251.1	234.5	237.3	954.5	245.9	255.7	259.5	296.6	1057.7	255.8	283.9	287.4	306.7	1133.8
SHIPMENTS - DOMESTIC	223.6	246.0	234.4	233.6	937.6	241.3	258.4	257.8	291.7	1049.2	261.5	281.8	287.5	304.7	1135.5
- EXPORT	3.6	3.8	3.2	2.9	13.5	2.4	2.9	2.6	2.6	10.5	2.7	1.7	1.8	2.1	8.3
TOTAL SHIPMENTS	227.2	249.8	237.6	236.5	951.1	243.7	261.3	260.4	294.3	1059.7	264.2	283.5	289.3	306.8	1143.8
ENDING STOCK	65.9	67.2	64.1	64.9		67.1	61.5	60.6	62.9		54.5	54.9	53.0	52.9	
POLYESTER															
PRODUCTION	316.2	340.8	345.9	318.0	1320.9	322.2	271.5	285.5	293.5	1172.7	287.7	303.3	293.9	293.8	1178.7
SHIPMENTS - DOMESTIC	290.1	311.6	309.2	293.3	1204.2	284.8	253.5	273.7	280.4	1092.4	266.8	285.2	280.8	280.6	1113.4
- EXPORT	17.7	30.6	29.0	31.0	108.3	21.8	23.8	14.3	17.4	77.3	16.4	18.4	15.8	16.3	66.9
TOTAL SHIPMENTS	307.8	342.2	338.2	324.3	1312.5	306.6	277.3	288.0	297.8	1169.7	283.2	303.6	296.6	296.9	1180.3
ENDING STOCK	107.9	106.5	114.2	107.9		123.5	117.7	115.2	110.9		115.4	115.1	112.4	109.3	
TOTAL NONCELLULOSIC ABOVE															
PRODUCTION	918.6	952.2	967.1	952.3	3790.2	965.0	923.7	943.3	1004.7	3836.7	957.6	1014.7	1014.2	1023.2	4009.7
SHIPMENTS - DOMESTIC	837.4	910.6	912.5	898.7	3559.2	889.5	880.6	909.2	942.7	3622.0	917.6	961.8	974.1	949.7	3803.2
- EXPORT	54.8	59.4	65.5	60.5	240.2	50.9	54.9	42.0	52.8	200.6	51.2	58.0	51.3	54.2	214.7
TOTAL SHIPMENTS	892.2	970.0	978.0	959.2	3799.4	940.4	935.5	951.2	995.5	3822.6	968.8	1019.8	1025.4	1003.9	4017.9
ENDING STOCK	328.1	310.3	299.4	292.5		317.1	305.3	297.4	306.6		295.4	290.3	279.1	298.4	
DOMESTIC SHIPMENTS	837.4	910.6	912.5	898.7	3559.2	889.5	880.6	909.2	942.7	3622.0	917.6	961.8	974.1	949.7	3803.2
IMPORTS -TEXTURED YARN [b]	16.2	16.2	22.7	17.8	72.9	17.9	19.5	20.4	24.1	81.9	19.3	15.1	17.2	16.9	68.5
-OTHER YARN [b]	11.9	12.0	9.3	8.4	41.6	12.3	13.9	14.7	14.0	54.9	13.3	12.4	11.9	11.3	48.9
-MONOFILAMENTS	0.6	0.6	0.5	0.4	2.1	0.8	0.6	0.5	0.8	2.7	0.8	0.9	1.0	1.1	3.8
TOTAL IMPORTS	28.7	28.8	32.5	26.6	116.6	31.0	34.0	35.6	38.9	139.5	33.4	28.4	30.1	29.3	121.2
TOTAL AVAILABLE	866.1	939.4	945.0	925.3	3675.8	920.5	914.6	944.8	981.6	3761.5	951.0	990.2	1004.2	979.0	3924.4
						TEXTILE GLASS FIBER									
TOTAL SHIPMENTS	317.9	325.6	318.8	297.3	1259.6	330.6	352.6	333.9	322.2	1339.3	366.1	392.5	383.3	371.2	1513.1
IMPORTS	7.5	9.4	8.4	9.4	34.7	7.9	6.0	4.4	5.4	23.7	4.9	5.6	11.3	7.6	29.4

FOOTNOTES FOR TABLE ABOVE & OPPOSITE:

"Imports" are imports for consumption, as reported by the U.S. Census Bureau.

a. Also include film fiber as well as spunbonded polypropylene.

b. Includes singles and plied.

c. These figures are composites of the nylon, acrylic+modacrylic and polyester staple imports, i.e., Commodity Numbers 309.4331, .4351, .4336 & .4366.

d. Includes both rayon & acetate yarn.

e. These figures are composites of olefin and other staple imports, i.e., Commodity Numbers 309.4371, .4341 & .4390.

f. 1987 data exclude Vinyon.

TABLE 11:
QUARTERLY MAN-MADE FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1985					1986					1987				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						STAPLE+TOW									
RAYON															
PRODUCTION	85.6	85.8	87.2	94.1	352.7	95.1	99.7	103.4	105.5	403.7	101.3	100.5	103.6	108.4	413.8
SHIPMENTS - DOMESTIC	73.8	76.6	82.9	90.4	323.7	91.6	92.0	95.1	94.3	373.0	91.8	91.0	97.9	102.4	383.1
- EXPORT	7.9	13.5	10.0	3.6	35.0	6.3	6.9	7.3	10.3	30.8	8.1	8.2	12.6	3.5	32.4
TOTAL SHIPMENTS	81.7	90.1	92.9	94.0	358.7	97.9	98.9	102.4	104.6	403.8	99.9	99.2	110.5	105.9	415.5
ENDING STOCK	32.4	28.1	22.4	22.5		19.7	20.5	21.5	22.4		23.8	25.1	18.2	20.7	
DOMESTIC SHIPMENTS	73.8	76.6	82.9	90.4	323.7	91.6	92.0	95.1	94.3	373.0	91.8	91.0	97.9	102.4	383.1
IMPORTS FOR CONSUMPTION															
STAPLE	3.8	2.2	2.4	2.9	11.3	3.9	3.6	4.6	4.3	16.4	3.9	3.8	2.6	2.7	13.0
GROUPED FILAMENTS	0.3	0.3	0.3	0.2	1.1	0.3	0.3	0.3	0.1	1.0	0.2	0.1	0.4	0.2	0.9
TOTAL IMPORTS	4.1	2.5	2.7	3.1	12.4	4.2	3.9	4.9	4.4	17.4	4.1	3.9	3.0	2.9	13.9
TOTAL AVAILABLE	77.9	79.1	85.6	93.5	336.1	95.8	95.9	100.0	98.7	390.4	95.9	94.9	100.9	105.3	397.0
NYLON															
PRODUCTION	191.6	200.8	215.6	219.7	827.7	220.5	207.4	236.1	244.3	908.3	247.4	261.0	252.8	231.2	992.4
SHIPMENTS-DOMESTIC	192.8	202.7	212.9	221.9	830.3	195.2	203.2	254.3	242.2	894.9	246.2	253.2	246.2	220.4	966.0
-EXPORT	3.3	3.1	3.2	3.7	13.3	3.9	2.9	3.0	3.5	13.3	5.3	5.0	3.7	5.5	19.5
TOTAL SHIPMENTS	196.1	205.8	216.1	225.6	843.6	199.1	206.1	257.3	245.7	908.2	251.5	258.2	249.9	225.9	985.5
ENDING STOCK	74.1	69.1	68.6	62.7		84.1	85.4	64.2	62.8		58.7	61.5	64.4	69.7	
IMPORTS	8.7	8.0	12.5	9.3	38.5	11.9	10.6	14.9	14.6	52.0	14.8	8.7	8.6	6.9	39.0
TOTAL AVAILABLE	201.5	210.7	225.4	231.2	868.8	207.1	213.8	269.2	256.8	946.9	261.0	261.9	254.8	227.3	1005.0
ACRYLIC+MODACRYLIC															
PRODUCTION	163.0	158.5	152.1	157.2	630.8	149.0	151.1	158.0	157.8	615.9	155.7	159.0	135.3	141.5	591.5
SHIPMENTS-DOMESTIC	105.3	119.7	118.6	115.1	458.7	123.1	143.7	138.7	125.7	531.2	139.4	131.6	112.8	95.5	479.3
-EXPORT	59.0	42.4	46.7	37.0	185.1	27.1	19.2	17.8	18.8	82.9	14.7	17.0	32.0	51.4	115.1
TOTAL SHIPMENTS	164.3	162.1	165.3	152.1	643.8	150.2	162.9	156.5	144.5	614.1	154.1	148.6	144.8	146.9	594.4
ENDING STOCK	76.1	72.5	59.3	64.4		63.2	51.4	52.9	66.2		67.8	78.2	68.7	63.3	
IMPORTS	3.4	3.6	5.9	4.7	17.6	3.2	4.0	5.3	4.9	17.4	3.3	4.1	4.6	3.7	15.7
TOTAL AVAILABLE	108.7	123.3	124.5	119.8	476.3	126.3	147.7	144.0	130.6	548.6	142.7	135.7	117.4	99.2	495.0
OLEFIN+VINYON [†]															
PRODUCTION	69.1	72.7	75.1	77.8	294.7	82.4	82.3	84.7	85.9	335.3	85.5	92.3	92.1	90.6	360.5
SHIPMENTS-DOMESTIC	67.2	71.9	70.8	69.8	279.7	73.9	82.6	76.4	79.8	312.7	81.1	85.7	86.1	88.2	341.1
-EXPORT	1.0	2.0	3.2	2.3	8.5	4.2	4.8	4.8	5.0	18.8	6.9	5.7	5.4	4.8	22.8
TOTAL SHIPMENTS	68.2	73.9	74.0	72.1	288.2	78.1	87.4	81.2	84.8	331.5	88.0	91.4	91.5	93.0	363.9
ENDING STOCK	24.1	22.9	24.0	29.7		34.0	28.9	32.4	33.5		31.0	31.9	32.5	30.1	
POLYESTER															
PRODUCTION	520.7	512.2	468.9	518.3	2020.1	520.8	538.7	522.1	550.7	2132.3	581.0	596.2	578.4	606.2	2361.8
SHIPMENTS-DOMESTIC	456.3	460.2	462.4	493.8	1872.7	499.1	499.9	496.3	503.3	1998.6	534.4	549.9	537.5	579.2	2201.0
-EXPORT	51.0	63.2	29.1	22.6	165.9	25.7	25.0	31.6	42.5	124.8	48.2	47.0	38.3	34.7	168.2
TOTAL SHIPMENTS	507.3	523.4	491.5	516.4	2038.6	524.8	524.9	527.9	545.8	2123.4	582.6	596.9	575.8	613.9	2369.2
ENDING STOCK	186.9	175.7	153.1	155.0		151.0	164.8	159.0	163.9		162.3	161.6	164.2	156.5	
IMPORTS	5.5	7.7	7.3	6.3	26.8	9.3	8.9	8.7	13.9	40.8	15.5	17.4	23.4	14.4	70.7
TOTAL AVAILABLE	461.8	467.9	469.7	500.1	1899.5	508.4	508.8	505.0	517.2	2039.4	549.9	567.3	560.9	593.6	2271.7
TOTAL NONCELLULOSIC															
PRODUCTION	944.4	944.2	911.7	973.0	3773.3	972.7	979.5	1000.9	1038.7	3991.8	1069.6	1108.5	1058.6	1069.5	4306.2
SHIPMENTS-DOMESTIC	821.6	854.5	864.7	900.6	3441.4	891.3	929.4	965.7	951.0	3737.4	1001.1	1020.4	982.6	983.3	3987.4
-EXPORT	114.3	110.7	82.2	65.6	372.8	60.9	51.9	57.2	69.8	239.8	75.1	74.7	79.4	96.4	325.6
TOTAL SHIPMENTS	935.9	965.2	946.9	966.2	3814.2	952.2	981.3	1022.9	1020.8	3977.2	1076.2	1095.1	1062.0	1079.7	4313.0
ENDING STOCK	361.2	340.2	305.0	311.8		332.3	330.5	308.5	326.4		319.8	333.2	329.8	319.6	
DOMESTIC SHIPMENTS	821.6	854.5	864.7	900.6	3441.4	891.3	929.4	965.7	951.0	3737.4	1001.1	1020.4	982.6	983.3	3987.4
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE [c]	17.6	19.3	25.7	20.3	82.9	24.4	23.5	28.9	33.4	110.2	33.6	30.2	36.6	25.0	125.4
OTHER N.C. STAPLE [e]	7.1	7.3	8.7	8.2	31.3	7.2	4.4	2.5	2.0	16.1	2.8	3.6	3.7	3.4	13.5
GROUPED FILAMENTS	9.5	11.8	11.9	12.3	45.5	14.4	15.0	14.7	12.4	56.5	12.4	12.4	12.1	13.1	50.0
TOTAL IMPORTS	34.2	38.4	46.3	40.8	159.7	46.0	42.9	46.1	47.8	182.8	48.8	46.2	52.4	41.5	168.9
TOTAL AVAILABLE	855.8	892.9	911.0	941.4	3601.1	937.3	972.3	1011.8	998.8	3920.2	1049.9	1066.6	1035.0	1024.8	4176.3

See footnotes on opposite page.

TABLE 12:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1988												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
	MAN-MADE FIBER TOTAL SHIPMENTS[b][c]													
CELLULOSIC														
YARN	15.9												15.9	14.6
RAYON STAPLE	32.6												32.6	34.1
TOTAL CELLULOSIC	48.5												48.5	48.7
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5												27.5	31.0
- CARPET	72.6												72.6	75.1
- TEXTILE[f]	30.0												30.0	30.5
POLYESTER - INDUSTRIAL[d]	26.5												26.5	26.6
- TEXTILE[f]	62.9												62.9	63.3
OLEFIN[e]	93.5												93.5	92.3
TOTAL YARN	313.0												313.0	318.8
STAPLE+TOW+FIBERFILL														
NYLON	78.0												78.0	84.1
ACRYLIC+MODACRYLIC	48.5												48.5	49.2
POLYESTER	190.4												190.4	184.8
OLEFIN	27.8												27.8	28.2
TOTAL STAPLE	344.7												344.7	346.3
TOTAL NONCELLULOSIC	657.7												657.7	665.1
TOTAL MAN-MADE FIBER	706.2												706.2	713.8
	MAN-MADE FIBER END-OF-MONTH STOCK													
CELLULOSIC														
YARN	12.3												12.3	17.9
RAYON STAPLE	23.5												23.5	24.3
TOTAL CELLULOSIC	35.8												35.8	42.2
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6												26.6	29.2
- CARPET	72.0												72.0	56.6
- TEXTILE[f]	51.7												51.7	49.6
POLYESTER - INDUSTRIAL[d]	29.8												29.8	30.6
- TEXTILE[f]	82.5												82.5	85.6
OLEFIN[e]	54.0												54.0	54.7
TOTAL YARN	316.6												316.6	306.3
STAPLE+TOW+FIBERFILL														
NYLON	63.4												63.4	59.3
ACRYLIC+MODACRYLIC	62.4												62.4	68.2
POLYESTER	173.7												173.7	178.0
OLEFIN	32.5												32.5	33.3
TOTAL STAPLE	332.0												332.0	338.8
TOTAL NONCELLULOSIC	648.6												648.6	645.1
TOTAL MAN-MADE FIBER	684.4												684.4	687.3
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL														
CARPET CLASS WOOL														
TOTAL RAW WOOL														
RAW COTTON														

[a] "Year to date" totals for stock, are the latest month's figures.

[b] The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

[c] Producers' total domestic shipments plus export shipments.

[d] Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

[e] Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

[f] Includes low denier industrial yarn.

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TEXTILE ORGANON

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Highlights

- Raw Fiber Equivalent of Imports, Exports & Balance ...begins on page 40.
- Man-Made Fiber Producing Industry Employment in Selected Countries ...see page 45.
- 1987: A Year in Perspective ...begins on page 46.

SHIPMENTS:

In February, total man-made fiber shipments increased 53.0 million pounds over January's level to reach 764.2 million pounds. That quantity represents a 7.5% gain over January and a level 6.8% above the previous February. Shipments of cellulosic fiber at 52.0 million pounds gained 7.2% in one month while shipments of noncellulosic fiber at 712.2 million pounds grew 7.5%.

Contributing to the increase in shipments over the previous month were a 12.0 million pound gain in polyester staple, an 8.1 million pound growth in nylon carpet yarn and a 7.4 million pound increase in olefin yarn. The three largest percentage gainers were as follows: nylon industrial yarn ahead 16.7%, nylon carpet yarn up 11.2% and polyester industrial yarn up 10.6%.

For the year to date, total man-made fiber shows a 3.2% gain. Cellulosic fiber is ahead 9.1%, noncellulosic yarn is ahead 3.8%, and noncellulosic staple is up 1.9%.

TABLE 1:
TOTAL U.S. MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1988 FEB	1988 JAN	% CHG 1/88-2/88	1987 FEB	% CHG 2/87-2/88	YEAR TO DATE 1988	YEAR TO DATE 1987	% CHG YTD 1987-1988
CELLULOSIC								
YARN	16.1	15.9	*+1.3*	13.7	*+17.5*	32.0	28.3	*+13.1*
RAYON STAPLE	35.9	32.6	*+10.1*	29.7	*+20.9*	68.5	63.8	*+7.4*
TOTAL CELLULOSIC	**52.0**	**48.5**	***+7.2***	**43.4**	***+19.8***	**100.5**	**92.1**	***+9.1***
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	32.1	27.5	*+16.7*	32.8	*-2.1*	59.6	63.8	*-6.6*
- CARPET	80.7	72.6	*+11.2*	77.6	*+4.0*	153.3	152.7	*+0.4*
- TEXTILE[a]	31.2	30.0	*+4.0*	30.4	*+2.6*	61.2	60.9	*+0.5*
POLYESTER - INDUSTRIAL	29.3	26.5	*+10.6*	27.6	*+6.2*	55.8	54.2	*+3.0*
- TEXTILE[a]	68.4	62.9	*+8.7*	64.0	*+6.9*	131.3	127.3	*+3.1*
OLEFIN	104.6	97.2	*+7.6*	87.6	*+19.4*	201.8	179.9	*+12.2*
TOTAL YARN	**346.3**	**316.7**	***+9.3***	**320.0**	***+8.2***	**663.0**	**638.8**	***+3.8***
STAPLE+TOW+FIBERFILL								
NYLON	81.7	78.0	*+4.7*	81.2	*+0.6*	159.7	165.3	*-3.4*
ACRYLIC+MODACRYLIC	52.8	48.5	*+8.9*	50.7	*+4.1*	101.3	99.9	*+1.4*
POLYESTER	202.4	190.4	*+6.3*	192.2	*+5.3*	392.8	377.0	*+4.2*
OLEFIN	29.0	29.1	*-0.3*	27.9	*+3.9*	58.1	56.1	*+3.6*
TOTAL STAPLE	**365.9**	**346.0**	***+5.8***	**352.0**	***+3.9***	**711.9**	**698.3**	***+1.9***
TOTAL NONCELLULOSIC	**712.2**	**662.7**	***+7.5***	**672.0**	***+6.0***	**1374.9**	**1337.1**	***+2.8***
TOTAL MAN-MADE FIBER	**764.2**	**711.2**	***+7.5***	**715.4**	***+6.8***	**1475.4**	**1429.2**	***+3.2***

[a] Includes low denier industrial yarn.

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President
Rosemarie D. Frick

Editor, Textile Organon
David S. Morey

Publishing Headquarters:
Textile Economics Bureau, Inc.
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Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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DATAGRAM

IMPORTS OF SEMIMANUFACTURED AND MANUFACTURED PRODUCTS INCREASED 528.0 MILLION POUNDS IN 1987

According to U.S. Department of Agriculture data, the raw fiber equivalent of imports of semimanufactured and manufactured products increased 528.0 million pounds to reach a total of 4,417.1 million pounds. Imports of man-made fiber products increased 102.4 million pounds, of cotton increased 425.1 million pounds and of wool increased 0.5 million pounds. (See Table 13)

EXPORTS INCREASED 103.2 MILLION POUNDS

Exports of semimanufactured and manufactured products increased 103.2 million pounds to reach 913.3 million pounds. Of the increase, 72.6 million pounds were of man-made fiber, 23.2 million pounds were of cotton and 7.4 million pounds were of wool.

THE IMPORT BALANCE OF TRADE INCREASED 360.4 MILLION POUNDS IN 1987

The balance of trade for man-made fiber was an export balance of 366.1 million pounds. However, the net import balance of 3,503.8 million pounds of manufactures produced a combined fiber and manufactures net import balance of 3,137.7 million pounds. That is an increase of 360.4 million pounds or 13.0% over the 1986 total import balance. (See Graph 3)

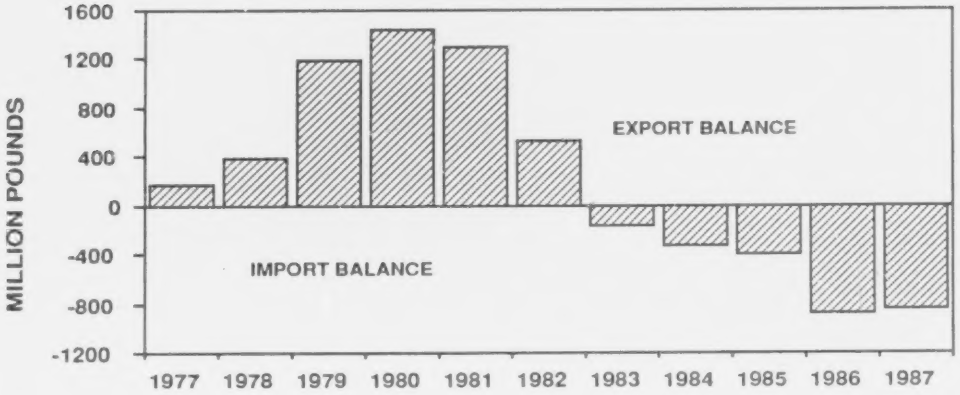
MILL CONSUMPTION INCREASED 834.3 MILLION POUNDS IN 1987

Mill consumption of fiber (which is the sum of fiber producers' domestic shipments and fiber imports) increased by 834.3 million pounds to reach 12.8 billion pounds. Of this quantity, 69.3% was man-made fiber. (See Table 8)

DOMESTIC CONSUMPTION INCREASED 1,259.1 MILLION POUNDS

Domestic consumption (which is mill consumption of fiber plus imports of semimanufactured and manufactured products, less exports) increased by 1,259.1 million pounds to reach 16.3 billion pounds. Imports continue to gain share and in 1987 represented 27.2% of domestic consumption. (See Table 13)

GRAPH 1:
U.S. BALANCE OF TRADE IN MAN-MADE FIBER & MANUFACTURES



GRAPH 2:
U.S. BALANCE OF TRADE IN MAN-MADE FIBER VS. U.S. BALANCE OF TRADE IN MAN-MADE FIBER MANUFACTURES

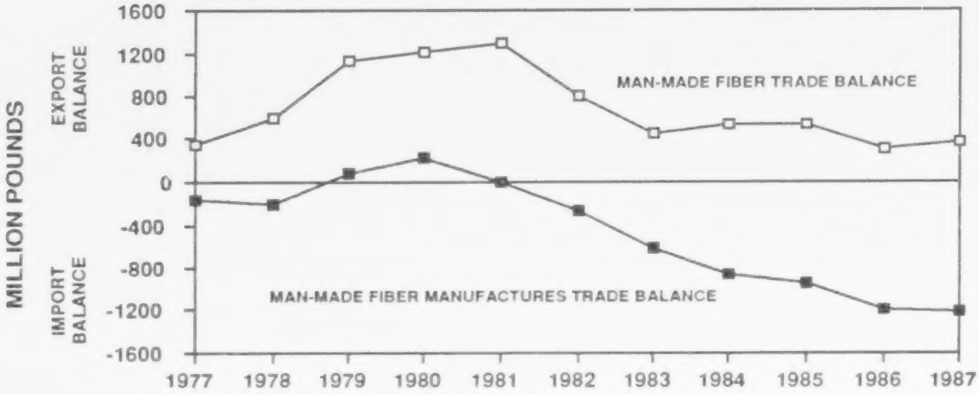


TABLE 2:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER MANUFACTURES
MILLION POUNDS

COMMODITY	1987												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.[a]	6.4	7.6	7.1	8.4	8.8	9.6	8.7	7.3	7.7	8.0	6.4	5.9	91.9	96.3
CLOTH[b]	15.7	17.0	18.0	18.3	20.5	19.4	20.0	19.9	14.0	16.5	15.5	16.9	211.7	245.0
SUBTOTAL	**22.1**	**24.6**	**25.1**	**26.7**	**29.3**	**29.0**	**28.7**	**27.2**	**21.7**	**24.5**	**21.9**	**22.8**	**303.6**	**341.3**
MANUFACTURED PRODUCTS														
WEARING APPAREL	81.7	86.6	75.5	80.8	91.7	104.6	116.6	103.9	85.4	82.7	59.5	64.2	1033.2	929.4
INDUSTRIAL[c]	0.4	0.2	0.3	0.3	0.4	0.6	0.7	0.5	0.4	0.6	0.5	0.7	5.6	2.7
HOME FURNISHINGS[d] ALL OTHER[e] }	32.5	38.5	36.9	40.3	40.5	44.0	44.6	42.5	38.1	39.8	32.0	32.9	462.6	429.2
SUBTOTAL	**114.6**	**125.3**	**112.7**	**121.4**	**132.6**	**149.2**	**161.9**	**146.9**	**123.9**	**123.1**	**92.0**	**97.8**	**1501.4**	**1361.3**
TOTAL IMPORTS	**136.7**	**149.9**	**137.8**	**148.1**	**161.9**	**178.2**	**190.6**	**174.1**	**145.6**	**147.6**	**113.9**	**120.6**	**1805.0**	**1702.6**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.[a]	2.9	3.6	4.3	4.5	5.6	4.1	3.8	3.8	4.7	4.9	6.1	5.6	53.9	47.9
CLOTH[b]	11.9	16.2	18.9	20.0	18.1	19.4	13.4	18.8	18.6	17.8	18.6	18.2	209.9	184.2
SUBTOTAL	**14.8**	**19.8**	**23.2**	**24.5**	**23.7**	**23.5**	**17.2**	**22.6**	**23.3**	**22.7**	**24.7**	**23.8**	**263.8**	**232.1**
MANUFACTURED PRODUCTS														
WEARING APPAREL	5.8	6.8	7.1	7.8	6.7	6.6	6.8	6.3	7.3	7.5	7.4	6.4	82.5	74.9
INDUSTRIAL[c]	5.6	3.8	4.2	4.5	5.7	4.6	4.1	3.7	5.2	4.9	3.1	4.4	53.8	46.3
HOME FURNISHINGS[d]	5.8	7.1	9.4	10.1	8.0	9.8	7.4	8.0	8.9	8.0	9.0	9.5	101.0	86.8
ALL OTHER[f]	6.0	7.4	7.7	7.3	8.6	7.7	7.1	7.6	7.8	8.2	8.4	7.0	90.8	79.1
SUBTOTAL	**23.2**	**25.1**	**28.4**	**29.7**	**29.0**	**28.7**	**25.4**	**25.6**	**29.2**	**28.6**	**27.9**	**27.3**	**328.1**	**287.1**
TOTAL EXPORTS	**38.0**	**44.9**	**51.6**	**54.2**	**52.7**	**52.2**	**42.6**	**48.2**	**52.5**	**51.3**	**52.6**	**51.1**	**591.9**	**519.2**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.	3.5 I	4.0 I	2.8 I	3.9 I	3.2 I	5.5 I	4.9 I	3.5 I	3.0 I	3.1 I	0.3 I	0.3 I	38.0 I	48.4 I
CLOTH	3.8 I	0.8 I	0.9 E	1.7 E	2.4 I	0	6.6 I	1.1 I	4.6 E	1.3 E	3.1 E	1.3 E	1.8 I	60.8 I
SUBTOTAL	**7.3 I**	**4.8 I**	**1.9 I**	**2.2 I**	**5.6 I**	**5.5 I**	**11.5 I**	**4.6 I**	**1.6 E**	**1.8 I**	**2.8 E**	**1.0 E**	**39.8 I**	**109.2 I**
MANUFACTURED PRODUCTS														
WEARING APPAREL	75.9 I	79.8 I	68.4 I	73.0 I	85.0 I	98.0 I	109.8 I	97.6 I	78.1 I	75.2 I	52.1 I	57.8 I	950.7 I	854.5 I
INDUSTRIAL	5.2 E	3.6 E	3.9 E	4.2 E	5.3 E	4.0 E	3.4 E	3.2 E	4.8 E	4.3 E	2.6 E	3.7 E	48.2 E	43.6 E
HOME FURNISHINGS ALL OTHER }	20.7 I	24.0 I	19.8 I	22.9 I	23.9 I	26.5 I	30.1 I	26.9 I	21.4 I	23.6 I	14.6 I	16.4 I	270.8 I	263.3 I
SUBTOTAL	**91.4 I**	**100.2 I**	**84.3 I**	**91.7 I**	**103.6 I**	**120.5 I**	**136.5 I**	**121.3 I**	**94.7 I**	**94.5 I**	**64.1 I**	**70.5 I**	**1173.3 I**	**1074.2 I**
TOTAL BALANCE	**98.7 I**	**105.0 I**	**86.2 I**	**93.9 I**	**109.2 I**	**126.0 I**	**148.0 I**	**125.9 I**	**93.1 I**	**96.3 I**	**61.3 I**	**69.5 I**	**1213.1 I**	**1183.4 I**

SOURCE: U.S. Department of Agriculture, Cotton and Wool Outlook & Situation.

a. Includes sliver, tops, roving, plied (textured and other), thrown and spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here; rather they are included in Column 13 page 52 of this issue.

Man-made fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980-1987 only; the corresponding quantities for each year are, respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5 & 80.1.

b. Includes broad & narrow woven fabrics and knit cloth.

c. The man-made fiber data are tire cord & tire cord fabric.

d. Includes carpets & rugs. Lace window curtains are in All Other.

e. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc.

f. Includes such products as lace & lace articles, polishing & dustcloths, braids, tassels, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with man-made fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 3:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF COTTON MANUFACTURES
MILLION POUNDS

COMMODITY	1987												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.[a]	10.3	11.1	8.2	7.4	6.4	9.1	11.7	11.7	13.5	15.5	16.2	13.4	134.5	105.9
CLOTH[b]	47.6	57.4	57.7	50.4	51.4	58.9	57.7	56.3	49.9	55.9	54.1	52.6	649.9	532.9
SUBTOTAL	**57.9**	**68.5**	**65.9**	**57.8**	**57.8**	**68.0**	**69.4**	**68.0**	**63.4**	**71.4**	**70.3**	**66.0**	**784.4**	**638.8**
MANUFACTURED PRODUCTS														
WEARING APPAREL	108.6	118.3	105.5	97.0	100.7	115.9	125.2	115.7	95.3	102.1	86.4	94.9	1265.6	1016.0
INDUSTRIAL	7.3	6.5	5.3	4.6	3.4	4.2	3.2	3.3	3.1	3.0	4.3	5.0	53.2	46.4
HOME FURNISHINGS[c]	16.0	16.0	17.4	16.0	15.4	16.7	17.6	18.3	16.7	17.5	18.5	19.1	205.2	182.9
ALL OTHER[d]	2.0	2.3	2.7	2.3	2.2	2.1	2.4	2.5	2.3	2.0	2.4	2.1	27.3	26.4
SUBTOTAL	**133.9**	**143.1**	**130.9**	**119.9**	**121.7**	**138.9**	**148.4**	**139.8**	**117.4**	**124.6**	**111.6**	**121.1**	**1551.3**	**1271.7**
TOTAL IMPORTS	**191.8**	**211.6**	**196.8**	**177.7**	**179.5**	**206.9**	**217.8**	**207.8**	**180.8**	**196.0**	**181.9**	**187.1**	**2335.7**	**1910.5**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.[a]	1.5	1.3	1.5	1.1	1.0	2.6	2.1	2.4	2.2	1.4	1.2	1.3	19.6	16.6
CLOTH[b]	8.4	12.2	10.8	9.5	9.0	8.1	7.1	8.8	7.5	8.7	8.8	8.4	107.3	126.4
SUBTOTAL	**9.9**	**13.5**	**12.3**	**10.6**	**10.0**	**10.7**	**9.2**	**11.2**	**9.7**	**10.1**	**10.0**	**9.7**	**126.9**	**143.0**
MANUFACTURED PRODUCTS														
WEARING APPAREL	6.0	8.5	9.4	9.3	9.4	8.7	9.5	8.5	9.7	9.9	10.1	9.4	108.4	73.9
INDUSTRIAL	1.2	1.8	1.8	1.8	1.7	2.3	1.7	1.7	1.8	2.4	1.8	1.7	21.7	21.0
HOME FURNISHINGS[c]	2.5	2.5	2.9	3.0	3.3	3.2	4.9	3.3	3.2	3.3	3.9	4.1	40.1	36.4
ALL OTHER[d]	+	0.1	0.1	+	0.1	0.1	0.1	+	0.1	0.1	0.1	0.1	0.9	0.6
SUBTOTAL	**9.7**	**12.9**	**14.2**	**14.1**	**14.5**	**14.3**	**16.2**	**13.5**	**14.8**	**15.7**	**15.9**	**15.3**	**171.1**	**131.9**
TOTAL EXPORTS	**19.6**	**26.4**	**26.5**	**24.7**	**24.5**	**25.0**	**25.4**	**24.7**	**24.5**	**25.8**	**25.9**	**25.0**	**298.0**	**274.9**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.	8.8	9.8	6.7	6.3	5.4	6.5	9.6	9.3	11.3	14.1	15.0	12.1	114.9	89.3
CLOTH	39.2	45.2	46.9	40.9	42.4	50.8	50.6	47.5	42.4	47.2	45.3	44.2	542.6	406.5
SUBTOTAL	**48.0**	**55.0**	**53.6**	**47.2**	**47.8**	**57.3**	**60.2**	**56.8**	**53.7**	**61.3**	**60.3**	**56.3**	**657.5**	**495.8**
MANUFACTURED PRODUCTS														
WEARING APPAREL	102.6	109.8	96.1	87.7	91.3	107.2	115.7	107.2	85.6	92.2	76.3	85.5	1157.2	942.1
INDUSTRIAL	6.1	4.7	3.5	2.8	1.7	1.9	1.5	1.6	1.3	0.6	2.5	3.3	31.5	25.4
HOME FURNISHINGS	13.5	13.5	14.5	13.0	12.1	13.5	12.7	15.0	13.5	14.2	14.6	15.0	165.1	146.5
ALL OTHER	2.0	2.2	2.6	2.3	2.1	2.0	2.3	2.5	2.2	1.9	2.3	2.0	26.4	25.8
SUBTOTAL	**124.2**	**130.2**	**116.7**	**105.8**	**107.2**	**124.6**	**132.2**	**126.3**	**102.6**	**108.9**	**95.7**	**105.8**	**1380.2**	**1139.8**
TOTAL BALANCE	**172.2**	**185.2**	**170.3**	**153.0**	**155.0**	**181.9**	**192.4**	**183.1**	**156.3**	**170.2**	**156.0**	**162.1**	**2037.7**	**1635.6**

SOURCE: U.S. Department of Agriculture, Cotton and Wool Outlook & Situation.

[a] Includes sliver, tops, roving, plied (textured and other), spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here.

[b] Includes broad & narrow woven fabrics and knit cloth. Cotton narrow fabrics are included in All Other.

[c] Includes carpets and rugs, bed sheets, towels, tablecloths, etc. Lace window curtains are in All Other.

[d] Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with man-made fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 4:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF WOOL MANUFACTURES
MILLION POUNDS

COMMODITY	1987 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE 1987	1986
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.[a]	0.8	1.4	1.3	1.5	1.8	1.3	1.7	0.9	0.9	0.9	1.0	1.1	14.6	13.7
CLOTH[b]	2.0	2.7	3.1	3.3	3.8	3.1	2.9	2.0	1.5	1.7	1.5	1.9	29.5	25.9
SUBTOTAL	**2.8**	**4.1**	**4.4**	**4.8**	**5.6**	**4.4**	**4.6**	**2.9**	**2.4**	**2.6**	**2.5**	**3.0**	**44.1**	**39.6**
MANUFACTURED PRODUCTS														
WEARING APPAREL[c]	8.4	7.1	7.0	9.1	13.9	19.5	24.0	23.4	17.5	14.7	7.9	6.4	158.9	155.6
INDUSTRIAL	NOMINAL QUANTITIES INCLUDED IN ALL OTHER													
HOME FURNISHINGS[d]	4.3	4.4	5.5	4.3	4.6	4.6	4.3	3.8	3.8	5.0	4.1	4.4	53.1	62.9
ALL OTHER[e]	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	2.2	2.4
SUBTOTAL	**12.8**	**11.6**	**12.7**	**13.6**	**18.8**	**24.3**	**28.5**	**27.4**	**21.5**	**19.8**	**12.2**	**11.0**	**214.2**	**220.9**
TOTAL IMPORTS	**15.6**	**15.7**	**17.1**	**18.4**	**24.4**	**28.7**	**33.1**	**30.3**	**23.9**	**22.4**	**14.7**	**14.0**	**258.3**	**260.5**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.[a]	0.7	0.9	0.9	0.9	1.2	1.3	1.2	1.6	0.6	0.9	1.3	1.2	12.7	6.3
CLOTH[b]	0.1	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.3	0.3	0.2	0.1	2.4	2.3
SUBTOTAL	**0.8**	**1.2**	**1.1**	**1.1**	**1.4**	**1.5**	**1.3**	**1.8**	**0.9**	**1.2**	**1.5**	**1.3**	**15.1**	**8.6**
MANUFACTURED PRODUCTS														
WEARING APPAREL	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.5	0.3	0.6	0.6	0.6	4.2	3.8
INDUSTRIAL	NOMINAL QUANTITIES INCLUDED IN ALL OTHER													
HOME FURNISHINGS[d]	+	+	+	+	0.1	+	+	+	+	+	+	0.1	0.2	0.2
ALL OTHER[f]	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.2	1.8	1.6
SUBTOTAL	**0.3**	**0.2**	**0.4**	**0.4**	**0.6**	**0.4**	**0.4**	**0.6**	**0.4**	**0.8**	**0.8**	**0.9**	**6.2**	**5.6**
TOTAL EXPORTS	**1.1**	**1.4**	**1.5**	**1.5**	**2.0**	**1.9**	**1.7**	**2.4**	**1.3**	**2.0**	**2.3**	**2.2**	**21.3**	**14.2**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.	0.1 I	0.5 I	0.4 I	0.6 I	0.6 I	0	0.5 I	0.7 E	0.3 I	0	0.3 E	0.1 E	1.9 I	7.4 I
CLOTH	1.9 I	2.4 I	2.9 I	3.1 I	3.6 I	2.9 I	2.8 I	1.8 I	1.2 I	1.4 I	1.3 I	1.8 I	27.1 I	23.6 I
SUBTOTAL	**2.0 I**	**2.9 I**	**3.3 I**	**3.7 I**	**4.2 I**	**2.9 I**	**3.3 I**	**1.1 I**	**1.5 I**	**1.4 I**	**1.0 I**	**1.7 I**	**29.0 I**	**31.0 I**
MANUFACTURED PRODUCTS														
WEARING APPAREL	8.2 I	7.0 I	6.8 I	8.9 I	13.6 I	19.2 I	23.7 I	22.9 I	17.2 I	14.1 I	7.3 I	5.8 I	154.7 I	151.8 I
INDUSTRIAL	NOMINAL QUANTITIES INCLUDED IN ALL OTHER													
HOME FURNISHINGS	4.3 I	4.4 I	5.5 I	4.3 I	4.5 I	4.6 I	4.3 I	3.8 I	3.8 I	5.0 I	4.1 I	4.3 I	52.9 I	62.7 I
ALL OTHER	0	0	0	0	0.1 I	0.1 I	0.1 I	0.1 I	0.1 I	0.1 E	0	0	0.4 I	0.8 I
SUBTOTAL	**12.5 I**	**11.4 I**	**12.3 I**	**13.2 I**	**18.2 I**	**23.9 I**	**28.1 I**	**26.8 I**	**21.1 I**	**19.0 I**	**11.4 I**	**10.1 I**	**208.0 I**	**215.3 I**
TOTAL BALANCE	**14.5 I**	**14.3 I**	**15.6 I**	**16.9 I**	**22.4 I**	**26.8 I**	**31.4 I**	**27.9 I**	**22.6 I**	**20.4 I**	**12.4 I**	**11.8 I**	**237.0 I**	**246.3 I**

SOURCE: U.S. Department of Agriculture, Cotton and Wool Outlook & Situation.

a. Includes sliver, tops, roving, plied (textured and other), spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here.

b. Includes broad & narrow woven fabrics. Wool knit fabrics are included in All Other.

c. Includes lace & lace articles, veils & veilings and nets & nettings.

d. Includes carpets and rugs.

e. Includes knit fabric in the piece, but not lace & lace articles, which are in Wearing Apparel.

f. Includes such products as braids, tassels, felts and knit fabrics.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

GRAPH 3:
U.S. TEXTILE INDUSTRY MONTHLY TRADE BALANCE - TRADE IN ALL FIBERS & MANUFACTURES

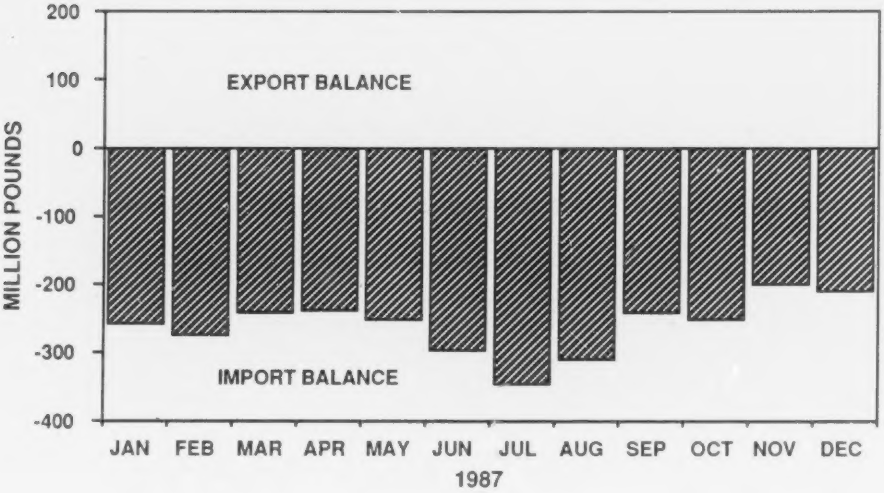


TABLE 5:
U.S. TEXTILE INDUSTRY MONTHLY TRADE BALANCE - TRADE IN ALL FIBERS AND MANUFACTURES

MILLION POUNDS

	MANUFACTURES				MAN-MADE FIBER	U.S. INDUSTRY
1987	MMF IMP BALANCE	COTTON IMP BALANCE	WOOL IMP BALANCE	TOTAL IMP BALANCE	EXP BALANCE	IMP BALANCE
JAN	98.7	172.2	14.5	285.4	28.9	256.5
FEB	105.0	185.2	14.3	304.5	30.7	273.8
MAR	86.2	170.3	15.6	272.1	29.2	242.9
APR	93.9	153.0	16.9	263.8	25.8	238.0
MAY	109.2	155.0	22.4	286.6	34.1	252.5
JUN	126.0	181.9	26.8	334.7	37.0	297.7
JUL	148.0	192.4	31.4	371.8	27.2	344.6
AUG	125.9	183.1	27.9	336.9	27.5	309.4
SEP	93.1	156.3	22.6	272.0	29.6	242.4
OCT	96.3	170.2	20.4	286.9	34.1	252.8
NOV	61.3	156.0	12.4	229.7	29.2	200.5
DEC	69.5	162.1	11.8	243.4	32.8	210.6

NOTE: The sum of the cotton, man-made fiber and wool manufactures net-import balances minus the man-made fiber net-export balance equals the total U.S. net-import textile trade balance.

GRAPH 4:
MAN-MADE FIBER PRODUCING INDUSTRY EMPLOYMENT IN SELECTED COUNTRIES

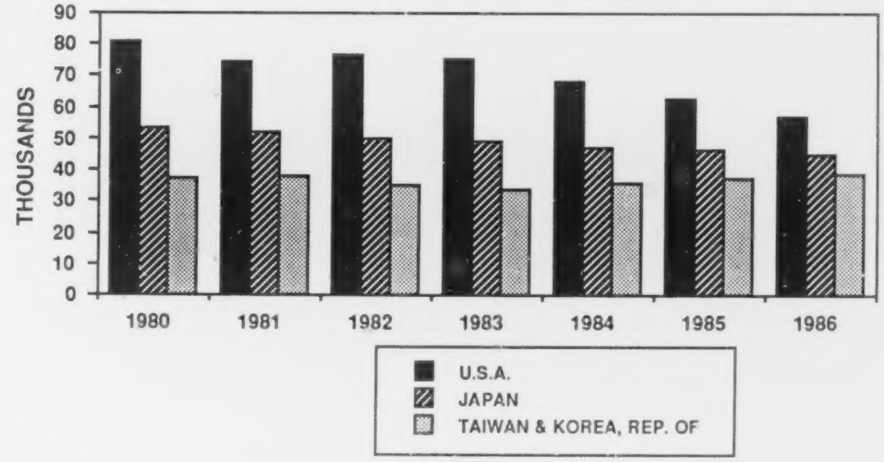


TABLE 6:
MAN-MADE FIBER PRODUCING INDUSTRY EMPLOYMENT IN SELECTED COUNTRIES

YEAR	COUNTRY		
	U.S.A.	JAPAN	TAIWAN & KOREA, REP. OF
1980	81,000	53,105	37,385
1981	74,800	52,130	37,750
1982	76,510	49,695	34,980
1983	75,420	49,200	33,735
1984	68,185	46,885	35,820
1985	62,560	46,195	37,625
1986	57,280	45,235	38,950 [a]

SOURCE: C.I.R.F.S. and *Textile Organon* estimate.
NOTE: Data include production, administration and technical department personnel.
a. Estimate.

1987: A YEAR IN PERSPECTIVE

U.S. mill consumption of fiber (which is the sum of fiber producers' domestic shipments and fiber imports) increased 834.3 million pounds or 7.0% in 1987 to reach 12.8 billion pounds. Man-made fiber consumption increased 390.0 million pounds or 4.6%, cotton consumption increased 441.2 million pounds or 13.4% and wool consumption increased 3.1 million pounds or 1.9%. For the year, man-made fiber represented 69.3% of mill consumption. (See Graph 5)

Imports and exports of man-made fiber both increased, resulting in a slight increase in the net export fiber balance to 336.1 million pounds. Imports of manufactures increased by 528.0 million pounds or 8.4% to reach 4417.1 million pounds. Cotton product imports at 2335.6 million pounds constituted 52.9% of all imports.

Exports in manufactures increased by 103.2 million pounds to reach 913.3 million pounds. The balance of trade in semimanufactured and manufactured products therefore experienced a net import increase of 424.8 million pounds for the year to reach a total net import balance of 3503.8 million pounds.

Domestic consumption (which is mill consumption of fiber plus imports of semimanufactured and manufactured products less exports) increased 1259.1 million pounds or 8.4% to reach 16.3 billion pounds. The imports represented 27.2% of domestic consumption in 1987, compared with a 25.9% share in 1986 and an 18.7% share in 1983. (See Graph 6)

TABLE 7:
MILL CONSUMPTION BY FIBER
BILLION POUNDS

YEAR	RAYON	ACETATE [a]	NYLON [b]	POLYESTER	ACRYLIC [c]	OLEFIN	COTTON	WOOL	TOTAL
1977	0.6	0.3	2.3	3.6	0.7	0.6	3.2	0.1	11.4
1978	0.6	0.3	2.5	3.7	0.6	0.7	3.0	0.1	11.5
1979	0.5	0.3	2.7	3.7	0.6	0.7	3.1	0.1	11.7
1980	0.5	0.3	2.3	3.5	0.6	0.7	3.1	0.1	11.1
1981	0.5	0.2	2.2	3.5	0.5	0.8	2.7	0.2	10.6
1982	0.3	0.2	1.9	3.0	0.5	0.8	2.5	0.1	9.3
1983	0.4	0.2	2.4	3.4	0.5	1.0	2.8	0.2	10.9
1984	0.4	0.2	2.4	3.2	0.5	1.0	2.7	0.2	10.6
1985	0.5 [d]		2.5	3.1	0.5	1.5	2.8	0.1	11.0
1986	0.6 [d]		2.5	3.2	0.6	1.5	3.3	0.2	11.9
1987	0.6 [d]		2.7	3.5	0.5	1.6	3.7	0.2	12.8

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.

[a] Includes triacetate. Cigarette tow is excluded.

[b] Includes Aramid for all years except 1983-1987.

[c] Includes modacrylic.

[d] Rayon and acetate combined.

TABLE 8:
U.S. MILL CONSUMPTION OF MAN-MADE FIBER, COTTON & WOOL
MILLION POUNDS & *PERCENT*

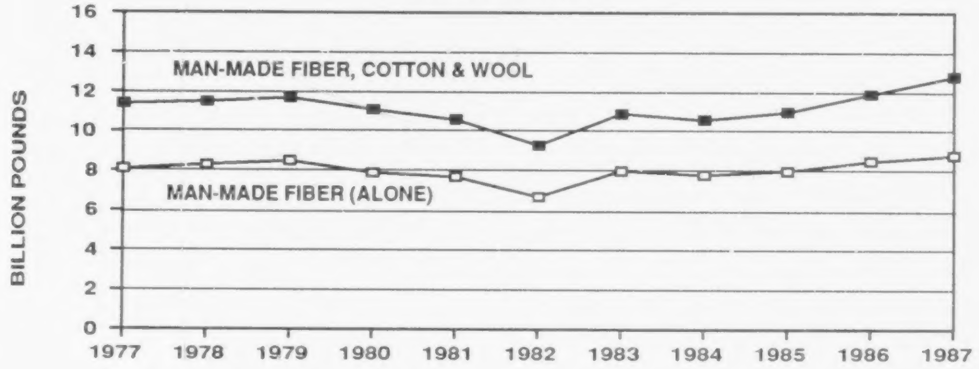
YEAR	MAN-MADE FIBER	% [a]	% [b]	COTTON	% [a]	% [b]	WOOL	% [a]	% [b]	TOTAL	% [a]	% [b]
1977	8096.2	--	71.0	3169.8	--	27.8	133.9	--	1.2	11399.9	--	100.0
1978	8341.0	+3.0	72.4	3040.4	-4.1	26.4	141.6	+5.8	1.2	11523.0	+1.1	100.0
1979	8523.4	+2.2	72.7	3066.4	+0.9	26.2	134.4	-5.1	1.1	11724.2	+1.7	100.0
1980	7885.7	-7.5	71.1	3064.4	-0.1	27.7	137.8	+2.5	1.2	11087.9	-5.4	100.0
1981	7721.5	-2.1	72.8	2730.8	-10.9	25.8	152.7	+10.8	1.4	10605.0	-4.4	100.0
1982	6653.5	-13.8	71.8	2478.9	-9.2	26.8	129.5	-15.2	1.4	9261.9	-12.7	100.0
1983	7994.5	+20.2	73.0	2795.7	+12.8	25.5	162.5	+25.5	1.5	10952.7	+18.3	100.0
1984	7789.5	-2.6	73.3	2668.2	-4.6	25.2	163.2	+0.4	1.5	10620.9	-3.0	100.0
1985	8035.5	+3.2	73.3	2796.0	+4.8	25.5	134.7	-17.5	1.2	10966.2	+3.3	100.0
1986	8453.9	+5.2	70.9	3301.7	+18.1	27.7	164.5	+22.1	1.4	11920.1	+8.7	100.0
1987	8843.9	+4.6	69.3	3742.9	+13.4	29.4	167.6	+1.9	1.3	12754.4	+7.0	100.0

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.

[a] Percent change from year to year.

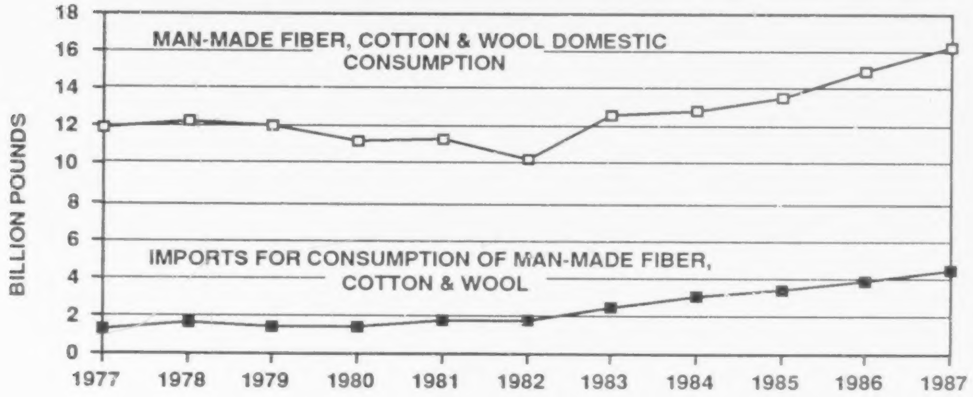
[b] Percent of total fiber consumption.

GRAPH 5:
U.S. MILL CONSUMPTION OF MAN-MADE FIBER [a] COTTON & WOOL



a. Textile Glass Fiber no longer included.

GRAPH 6:
MAN-MADE FIBER, COTTON, & WOOL DOMESTIC CONSUMPTION VS. IMPORTS OF FIBER & MANUFACTURES



GRAPH 7:
DOMESTIC CONSUMPTION DETAIL: MAN-MADE FIBER, COTTON & WOOL

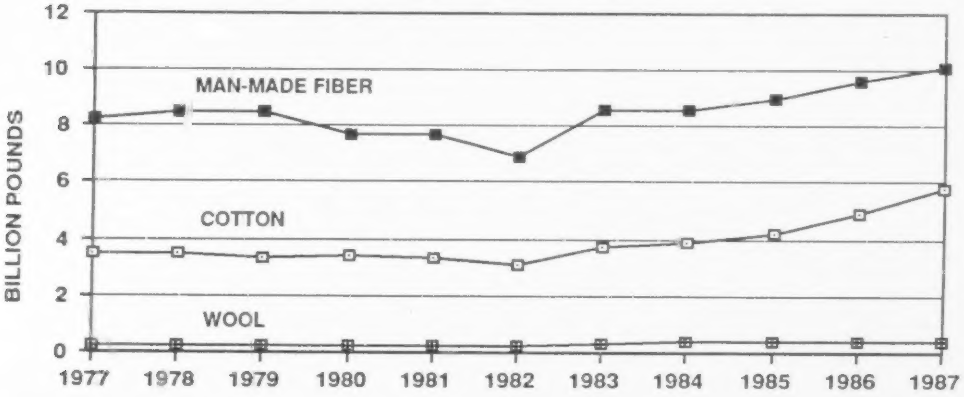


TABLE 9:
MAN-MADE FIBER PRODUCTION
ANNUALLY 1961 - 1987
MILLION POUNDS

	CELLULOSIC									NONCELLULOSIC FIBER c - h				
	RAYON YARN[a]			ACET YARN[b]	TOTAL YARN	STAPLE+TOW			TOTAL R+A					NON-ADD TOTAL GLASS FIBER[i]
YEAR	INDUS	TEXT	TOTAL			RAYON	ACET[b]	TOTAL		YARN	STAPLE	TOTAL	TOTAL	
1961	251.0	141.7	392.7	249.0	641.7	400.5	53.0	453.5	1095.2	497.2	253.7	750.9	1846.1	149.3
1962	272.0	148.4	420.4	305.7	726.1	500.0	46.0	546.0	1272.1	627.4	345.5	972.9	2245.0	190.3
1963	246.0	154.2	400.2	309.5	709.7	579.1	60.0	639.1	1348.8	712.8	443.2	1156.0	2504.8	191.9
1964	258.2	153.4	411.6	365.9	777.5	594.3	60.0	654.3	1431.8	847.6	559.1	1406.7	2838.5	239.5
1965	264.6	169.2	433.8	391.2	825.0	648.0	54.0	702.0	1527.0	997.7	782.4	1780.1	3307.1	282.3
1966	235.8	169.7	405.5	394.3	799.8	659.2	60.0	719.2	1519.0	1164.7	918.1	2082.8	3601.8	332.4
1967	161.2	147.9	309.1	425.6	734.7	603.4	50.0	653.4	1388.1	1215.4	1137.9	2353.3	3741.4	308.8
1968	202.4	162.9	365.3	439.9	805.2	739.1	50.0	789.1	1594.3	1662.1	1567.3	3229.4	4823.7	402.7
1969	168.6	150.6	319.2	455.2	774.7	758.8	43.0	801.8	1576.2	1766.9	1761.0	3527.9	5104.1	501.4
1970	146.4	121.2	267.6	463.2	730.8	607.4	35.0	642.4	1373.2	1793.4	1792.8	3586.2	4959.4	467.3
1971	180.4	123.0	303.4	449.3	752.7	611.7	26.5	638.2	1390.9	2187.9	2104.9	4292.8	5683.7	468.2
1972	146.7	105.0	251.7	401.4	653.1	713.2	28.0	741.2	1394.3	2773.3	2582.4	5355.7	6750.0	571.6
1973	121.7	76.4	198.1	437.2	635.3	696.7	25.0	721.7	1357.0	3339.6	2969.8	6309.4	7666.4	688.0
1974	112.9	58.9	171.8	361.6	533.4	645.4	20.0	665.4	1198.8	3443.0	2780.6	6223.6	7422.4	682.9
1975	46.1	18.7	64.8	301.3	366.1	370.9	12.0	382.9	749.0	3208.9	2676.8	5885.7	6634.7	546.5
1976	52.3	15.3	67.6	286.9	354.5	475.4	11.0	486.4	840.9	3306.4	3320.2	6626.6	7467.5	676.0
1977	55.3	15.4	70.7	282.0	352.7	527.0	8.0	535.0	887.7	3674.1	3653.8	7327.9	8215.6	786.7
1978	47.0	15.0	62.0	300.9	362.9	534.6	7.0	541.6	904.5	3830.3	3952.7	7783.0	8687.5	923.3
1979	41.7	15.1	56.8	316.6	373.4	549.4	7.0	556.4	929.8	4154.3	4282.3	8436.6	9366.4	1014.4
1980	32.2	15.0	47.2	308.5	355.7	443.3	7.0	450.3	806.0	3744.3	4148.2	7892.5	8698.5	867.3
1981	33.4	15.1	48.5	257.0	305.5	460.6	4.0	464.6	770.1	3814.8	4191.1	8005.9	8776.0	1041.1
1982	20.8	12.4	33.2	195.2	228.4	355.0	1.0	356.0	584.4	3057.4	3402.5	6459.9	7044.3	899.2
1983	25.0	11.2	36.2	227.6	263.8	374.8	1.4	376.2	640.0	3567.8	3970.6	7538.4	8178.4	1167.2
1984	28.8	12.1	40.9	198.2	239.1	389.2	0.4	389.6	628.7	3524.4	3947.3	7471.7	8100.4	1394.0
1985	NA	NA	NA	NA	204.6	352.7	0.5	353.2	557.8	3790.2	3773.3	7563.5	8121.3	NA
1986	NA	NA	NA	NA	214.8	403.7	0.5	404.2	619.0	3835.9	3991.8	7827.7	8446.7	NA
1987	NA	NA	NA	NA	191.1	415.5	0.5	416.0	607.1	4009.7	4306.2	8315.9	8923.0	NA

See footnotes on opposite page.

TABLE 10:
NONCELLULOSIC FIBER PRODUCTION DETAIL
MILLION POUNDS

YEAR	YARN+MONOFILAMENTS					STAPLE+TOW+FIBERFILL				
	NYLON[c]	OLEFIN[d]	ESTER[e]	OTHER[f]	TOTAL	NYLON[c]	ACRYL[g]	ESTER[e]	OTHER[h]	TOTAL
1961	441.7	18.9	36.6		497.2	34.2	140.1	77.4	2.0	253.7
1962	562.0	24.3	41.1		627.4	50.7	170.0	119.6	5.2	345.5
1963	630.0	30.3	52.5		712.8	61.5	209.7	166.6	5.4	443.2
1964	736.1	45.4	66.1		847.6	69.3	287.7	192.4	9.7	559.1
1965	846.1	65.6	86.0		997.7	93.7	368.4	305.2	15.1	782.4
1966	961.4	100.8	102.5		1164.7	118.7	352.9	409.3	37.2	918.1
1967	944.6	118.0	152.8		1215.4	124.6	397.7	568.1	47.5	1137.9
1968	1188.4	206.6	267.1		1662.1	162.1	521.0	827.3	56.9	1567.3
1969	1188.0	202.7	376.2		1766.9	223.2	553.0	938.8	66.0	1761.0
1970	1137.9	200.4	455.1		1793.4	216.8	491.9	1022.3	61.8	1792.8
1971	1237.9	261.8	688.2		2187.9	357.4	545.2	1142.5	59.8	2104.9
1972	1463.9	346.5	951.7	11.2	2773.3	510.6	625.9	1376.2	69.7	2582.4
1973	1582.8	423.8	1319.8	13.2	3339.6	591.9	742.1	1568.0	67.8	2969.8
1974	1560.0	463.1	1408.0	11.9	3443.0	563.7	631.2	1517.5	68.2	2780.6
1975	1295.4	442.9	1458.9	11.7	3208.9	561.9	524.6	1536.2	54.1	2676.8
1976	1372.5	515.7	1404.7	13.5	3306.4	702.7	621.0	1935.6	60.9	3320.2
1977	1512.4	554.1	1592.1	15.5	3674.1	813.7	708.8	2050.1	81.2	3653.8
1978	1654.0	596.6	1563.7	16.0	3830.3	895.9	725.7	2235.8	95.3	3952.7
1979	1781.6	639.1	1715.6	18.0	4154.3	938.8	761.1	2462.2	120.2	4282.3
1980	1631.1	632.2	1462.0	19.0	3744.3	726.6	779.2	2526.7	115.7	4148.2
1981	1580.7	642.9	1569.2	22.0	3814.8	751.8	690.8	2606.5	142.0	4191.1
1982	1241.6	585.2	1213.6	17.0	3057.4	685.0	624.1	1955.2	138.2	3402.5
1983	1492.2	716.1	1359.5	NA	3567.8	926.4	670.5	2184.1	189.6	3970.6
1984	1577.3	747.1	1200.0	NA	3524.4	834.8	670.8	2191.8	249.9	3947.3
1985	1514.8	954.5	1320.9	NA	3790.2	827.7	630.8	2020.1	294.7	3773.3
1986	1605.5	1057.7	1172.7	NA	3835.9	908.3	615.9	2132.3	335.3	3991.8
1987	1697.2	1133.8	1178.7	NA	4009.7	992.4	591.5	2361.8	360.5	4306.2

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.

NA No longer available.

a. Includes industrial (high tenacity) yarn and textile (regular+intermediate tenacity) yarn+monofilaments. Beginning January 1965, the high tenacity rayon yarn of 900 denier & finer is tabulated with regular tenacity yarn.

b. Includes diacetate and triacetate. The acetate staple+tow data do not include the quantities produced for cigarette filtration purposes.

c. Excludes aramid in 1983-1987.

d. Includes polypropylene yarn+monofilaments+spunbonded+film fiber and polyethylene monofilaments+film fiber.

e. Ester means polyester.

f. Other yarn is chiefly saran and spandex in recent years.

g. Includes modacrylic.

h. Other staple+tow includes only olefin and vinyon for recent years. Vinyon is excluded in 1987. Earlier years' data are on pages 8 & 9 of the January 1962 ORGANON Base Book issue and page 4 of the January-February 1971 issue.

i. Includes both textile and non-textile types of glass.

TABLE 11:
CELLULOSIC MAN-MADE FIBER DISTRIBUTION
ANNUALLY 1961 - 1987
MILLION POUNDS

YEAR	YARN+MONOFILAMENTS							STAPLE+TOW							TOTAL GLASS FIBER[i]				
	PRODUCERS' SHIPMENTS					IM-PORTS	MILL CONS	PRODUCERS' SHIPMENTS					IM-PORTS	MILL CONS	PRODUCERS' SHIPMENTS			IM-PORTS	MILL CONS
	TO DOM. CONSUMERS [a b]			EX-PORTS	TOTAL			TO DOM. CONSUMERS			EX-PORTS	TOTAL			DO-MESTIC	EX-PORTS	TOTAL		
	RAYON	ACET	TOTAL					RAYON	ACET[b]	TOTAL									
1961	385.2	240.8	626.0	33.1	659.1	1.8	627.8	441.8	51.4	463.2	2.8	466.0	37.0	500.2	147.2	6.0	153.2	--	147.2
1962	384.6	281.7	666.3	44.9	711.2	2.6	668.9	499.2	44.4	543.6	3.8	547.4	50.9	594.5	177.5	6.6	184.1	--	177.5
1963	380.7	305.0	685.7	39.7	725.4	1.7	687.4	578.8	57.5	636.3	4.9	641.2	116.5	752.8	182.0	8.5	190.5	--	182.0
1964	399.6	363.8	763.4	28.5	791.9	5.2	768.6	575.7	57.5	633.2	7.7	640.9	114.5	747.7	220.6	11.8	232.4	--	220.6
1965	409.3	366.4	775.7	22.1	797.8	6.8	782.5	636.3	54.4	690.7	8.4	699.1	77.2	767.9	268.2	18.7	286.9	--	268.2
1966	389.6	387.5	777.1	15.2	792.3	3.7	780.8	636.5	59.0	695.5	9.4	704.9	114.8	810.3	314.2	7.9	322.1	1.1	315.3
1967	311.1	421.0	732.1	18.2	750.3	7.7	739.8	625.9	49.5	675.4	4.3	679.7	85.0	760.4	302.7	8.2	310.9	1.0	303.7
1968	353.5	426.4	779.9	17.6	797.5	14.6	794.5	720.0	48.5	768.5	5.4	773.9	125.0	893.5	383.7	12.1	395.8	0.1	383.8
1969	294.7	444.7	739.4	16.0	755.4	4.1	743.5	737.9	42.3	780.2	5.0	785.2	91.2	871.4	460.4	17.7	476.1	0.1	460.5
1970	251.1	444.8	695.9	38.3	734.2	3.7	699.6	599.9	34.3	634.2	7.8	642.0	80.6	714.8	404.2	29.9	434.1	0.7	404.9
1971	297.0	432.3	729.3	33.2	762.5	5.2	734.5	643.6	26.2	669.8	3.7	673.5	81.3	751.1	464.9	17.4	482.3	1.8	466.7
1972	246.9	385.9	632.8	23.9	656.7	10.8	643.6	690.7	27.7	718.4	2.0	720.4	51.3	769.7	559.8	17.5	577.3	9.4	569.2
1973	197.6	392.3	589.9	60.7	650.6	18.1	608.0	709.5	25.0	734.5	14.7	749.2	47.4	781.9	663.0	36.5	699.5	13.0	676.0
1974	153.1	320.3	473.4	48.8	522.2	9.2	482.6	569.5	19.7	589.2	36.0	625.2	38.7	627.9	619.3	38.0	657.3	11.5	630.8
1975	74.9	293.7	368.6	32.9	401.5	9.2	377.8	373.4	12.0	385.4	20.2	405.6	37.9	423.3	524.6	18.3	542.9	8.9	533.5
1976	65.1	249.4	314.5	40.3	354.8	25.1	339.6	461.0	11.0	472.0	35.6	507.6	43.2	515.2	663.3	35.0	698.3	14.3	677.6
1977	68.1	259.4	327.5	25.2	352.7	23.5	351.0	444.9	8.0	452.9	62.3	515.2	57.8	510.7	769.3	28.9	798.2	22.0	791.3
1978	63.0	274.6	337.6	27.6	365.2	25.7	363.3	459.2	7.0	466.2	96.5	562.7	41.1	507.3	864.9	27.7	892.6	21.8	886.7
1979	55.0	288.4	343.4	31.8	375.2	13.3	356.7	442.4	7.0	449.4	100.1	549.5	16.5	465.9	912.2	48.3	960.5	10.4	922.6
1980	47.5	269.2	316.7	32.7	349.4	8.3	325.0	390.7	7.0	397.7	61.0	458.7	10.3	408.0	867.1	48.6	915.7	7.3	874.4
1981	46.6	226.3	272.9	34.8	307.7	10.7	283.6	396.9	4.0	400.9	59.8	460.7	16.8	417.7	963.8	35.2	999.0	18.2	982.0
1982	30.1	169.0	199.1	29.8	228.9	7.0	206.1	293.7	1.0	294.7	66.5	361.2	13.4	308.1	861.5	42.9	904.4	14.1	875.6
1983	35.5	197.6	233.1	28.2	261.3	8.7	241.8	333.5	1.4	334.9	43.9	378.8	13.6	348.5	1146.1	37.4	1183.5	20.0	1166.1
1984	38.2	180.1	218.3	18.2	236.5	10.0	228.3	331.9	0.4	332.3	52.1	384.4	17.0	349.3	1250.7	58.0	1308.7	23.1	1273.8
1985	NA	NA	187.1	23.0	210.1	13.9	201.0	323.7	0.5	324.2	35.0	359.2	12.3	336.5	NA	NA	1259.6	34.7	NA
1986	NA	NA	192.1	20.2	212.3	17.0	209.1	373.0	0.5	373.5	30.8	404.3	17.4	390.9	NA	NA	1339.3	23.7	NA
1987	NA	NA	166.8	24.9	191.7	12.8	179.6	383.1	0.5	383.6	32.4	416.0	13.8	397.4	NA	NA	1513.1	29.4	NA

See footnotes on opposite page.

TABLE 12:
NONCELLULOSIC MAN-MADE FIBER DISTRIBUTION

ANNUALLY 1961 - 1987

MILLION POUNDS

	YARN+MONOFILAMENTS									STAPLE+TOW+FIBERFILL								
	PRODUCERS' SHIPMENTS									PRODUCERS' SHIPMENTS								
	TO DOMESTIC CONSUMERS					EX-PORTS	TOTAL	IM-PORTS	MILL CONS	TO DOMESTIC CONSUMERS					EX-PORTS	TOTAL	IM-PORTS	MILL CONS
YEAR	NYLON[c]	OLEFIN[d]	ESTER[e]	OTH[f]	TOTAL					NYLON[c]	ACRYL[g]	ESTER[e]	OTH[h]	TOTAL				
1961	419.0	17.5	36.1		472.6	25.2	497.8	4.7	477.3	36.0	123.8	70.9	3.0	233.7	22.3	256.0	3.2	236.9
1962	503.1	22.5	38.1		563.7	41.1	604.8	7.0	570.7	47.5	147.1	115.3	3.6	313.5	20.3	333.8	13.9	327.4
1963	570.9	29.1	48.9		648.9	43.2	692.1	6.3	655.2	54.3	201.5	150.7	5.0	411.5	18.3	429.8	8.8	420.3
1964	685.9	44.2	63.6		793.7	62.8	856.5	3.7	797.4	68.3	263.2	177.5	8.6	517.6	34.1	551.7	19.2	536.8
1965	781.9	60.1	77.2		919.2	46.1	965.3	8.5	927.7	85.1	324.5	290.4	13.5	713.5	32.3	745.8	52.1	765.6
1966	880.0	94.6	81.4	13.4	1069.4	54.4	1123.8	12.5	1081.9	108.8	328.0	372.1	33.1	842.0	39.7	881.7	61.0	903.0
1967	907.4	116.1	133.0	11.8	1168.3	58.6	1226.9	16.4	1184.7	120.6	371.2	537.2	40.5	1069.5	60.3	1129.8	63.2	1132.7
1968	1085.8	199.0	226.7	10.5	1522.0	84.5	1606.5	33.7	1555.7	157.2	467.1	756.1	52.4	1432.8	72.2	1505.0	89.8	1522.6
1969	1063.4	188.6	353.6	10.9	1616.5	84.9	1701.4	32.5	1649.0	202.7	473.4	883.3	61.7	1621.1	100.3	1721.4	67.5	1688.6
1970	1052.6	187.0	433.0	10.0	1682.6	82.3	1764.9	120.8	1803.4	201.2	430.7	992.9	57.3	1682.1	108.6	1790.7	57.7	1739.8
1971	1206.7	246.5	636.8	10.1	2100.1	78.5	2178.6	234.4	2334.5	330.1	463.7	1111.4	58.9	1964.1	130.5	2094.6	93.3	2057.4
1972	1430.6	312.4	935.4	11.4	2689.8	87.4	2777.2	224.5	2914.3	476.6	536.0	1286.9	63.6	2363.1	174.1	2537.2	103.7	2466.8
1973	1544.7	395.4	1320.5	13.1	3273.7	127.4	3401.1	140.1	3413.8	586.8	662.0	1530.3	69.3	2848.4	233.0	3081.4	112.8	2961.2
1974	1408.8	426.3	1295.2	12.0	3142.3	140.6	3282.9	92.1	3234.4	487.8	514.9	1383.1	59.7	2450.5	195.3	2645.8	73.2	2523.7
1975	1289.7	436.1	1477.0	12.0	3214.8	104.5	3319.3	53.8	3268.6	557.9	467.3	1473.6	54.7	2553.5	209.9	2763.4	55.2	2608.7
1976	1279.3	482.0	1373.9	12.0	3147.2	138.5	3285.7	64.0	3211.2	665.4	517.3	1777.2	58.6	3018.5	247.4	3265.9	67.3	3085.8
1977	1396.2	539.6	1510.6	15.0	3461.4	159.0	3620.4	92.5	3553.9	791.7	619.8	1880.3	81.3	3373.1	270.0	3643.1	52.9	3426.0
1978	1539.1	579.7	1507.6	15.5	3641.9	197.5	3839.4	52.2	3694.1	876.4	571.6	1967.5	90.0	3505.5	411.4	3916.9	60.5	3566.0
1979	1631.3	624.2	1525.1	17.0	3797.6	319.3	4116.9	20.0	3817.6	913.2	546.6	2134.4	119.3	3713.5	593.2	4306.7	39.3	3752.8
1980	1538.9	611.7	1363.4	18.0	3532.0	301.8	3833.8	19.6	3551.6	711.2	585.3	2071.0	115.0	3482.5	689.8	4172.3	35.6	3518.1
1981	1404.3	628.3	1430.0	20.5	3483.1	282.5	3765.6	18.9	3502.0	696.4	494.1	2005.4	132.0	3327.9	820.4	4148.3	60.5	3388.4
1982	1165.6	577.0	1134.8	16.5	2893.9	220.2	3114.1	23.8	2917.7	673.3	457.9	1767.5	138.9	3037.6	369.9	3407.5	51.2	3088.8
1983	1392.4	698.6	1294.4	NA	3385.4	187.3	3572.7	48.3	3433.7	897.1	492.2	2099.2	183.4	3671.9	281.5	3953.4	101.4	3773.3
1984	1438.1	725.6	1144.9	NA	3308.6	189.0	3497.6	90.0	3398.6	814.4	446.7	1992.2	240.9	3494.2	442.4	3936.6	131.1	3625.3
1985	1417.4	937.6	1204.2	NA	3559.2	240.2	3799.4	104.6	3663.8	830.3	458.7	1872.7	279.7	3441.4	372.8	3814.2	159.4	3600.8
1986	1479.6	1049.2	1092.4	NA	3621.2	200.6	3821.8	126.1	3747.3	894.9	531.2	1998.6	312.7	3737.4	239.8	3977.2	182.8	3920.2
1987	1554.3	1135.5	1113.4	NA	3803.2	214.7	4017.9	123.9	3927.1	966.0	479.3	2201.0	341.1	3987.4	325.6	4313.0	189.0	4176.4

NA No longer available.

Mill consumption (CONS) means the sum of fiber producers' domestic shipments and fiber imports for consumption.

Imports for consumption (IMPORTS): yarn+monofil includes yarn singles, monofilaments & strips; staple+tow includes grouped filaments. Not included here are plied, spun & handwork yarns, sewing thread, sliver, tops & roving and waste.

a - i. See these lettered footnotes on page 49.

Noncellulosic data from 1940 are on page 5 of the January - February 1971 issue. Rayon+acetate data from 1911 are on page 9 of the January 1962 *Organon* Base Book.

TABLE 13:
U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS
MILLION POUNDS & *PERCENT*

YEAR	MAN-MADE FIBER MILL CONSUMPTION=PRODUCERS' SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)																					
	CELLULOSIC FIBER											NONCELLULOSIC FIBER										
	YARN+MONOFIL			STAPLE+TOW			WASTE					YARN+MONOFIL			STAPLE+TOW			WASTE				
	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
1973	589.9	18.1	608.0	734.5	47.4	781.9	36.8	- -	37.5	-0.7	1389.2	3273.7	140.1	3413.8	2848.4	112.8	2961.2	274.8	47.8	98.6	224.0	6599.0
1974	473.4	9.2	482.6	589.2	38.7	627.9	29.9	0.2	33.0	-2.9	1107.6	3142.3	92.1	3234.4	2450.5	73.2	2523.7	246.4	46.3	91.2	201.5	5959.6
1975	368.6	9.2	377.8	385.4	37.9	423.3	13.2	0.1	12.4	0.9	802.0	3214.8	53.8	3268.6	2553.5	55.2	2608.7	228.7	25.0	50.0	203.7	6081.0
1976	314.5	25.1	339.6	472.0	43.2	515.2	14.7	0.4	14.6	0.5	855.3	3147.2	64.0	3211.2	3018.5	67.3	3085.8	262.3	30.5	70.2	222.6	6519.6
1977	327.5	23.5	351.0	452.9	57.8	510.7	18.5	0.6	12.6	6.5	868.2	3461.4	92.5	3553.9	3373.1	52.9	3426.0	291.0	23.2	66.1	248.1	7228.0
1978	337.6	25.7	363.3	466.2	41.1	507.3	15.7	0.4	7.0	9.1	879.7	3641.9	52.2	3694.1	3505.5	60.5	3566.0	263.9	26.0	88.7	201.2	7461.3
1979	343.4	13.3	356.7	449.4	16.5	465.9	17.2	0.8	9.6	8.4	831.0	3797.6	20.0	3817.6	3713.5	39.3	3752.8	238.6	21.1	137.7	122.0	7692.4
1980	316.7	8.3	325.0	397.7	10.3	408.0	13.5	0.3	6.1	7.7	740.7	3532.0	19.6	3551.6	3482.5	35.6	3518.1	170.2	21.5	116.4	75.3	7145.0
1981	272.9	10.7	283.6	400.9	16.8	417.7	15.3	0.5	2.8	13.0	714.3	3483.1	18.9	3502.0	3327.9	60.5	3388.4	174.2	49.9	107.3	116.8	7007.2
1982	199.1	7.0	206.1	294.7	13.4	308.1	10.7	0.4	3.2	7.9	522.1	2893.9	23.8	2917.7	3037.6	51.2	3088.8	173.2	37.8	86.1	124.9	6131.4
1983	233.1	8.7	241.8	334.9	13.6	348.5	9.4	0.3	1.4	8.3	598.6	3385.4	48.3	3433.7	3671.9	101.4	3773.3	214.1	46.1	71.3	188.9	7395.9
1984	218.3	10.0	228.3	332.3	17.0	349.3	11.4	0.5	1.6	10.3	587.9	3308.6	90.0	3398.6	3494.2	131.1	3625.3	216.9	50.5	89.7	177.7	7201.6
1985	187.1	13.9	201.0	324.2	12.3	336.5	8.8	0.5	1.2	8.1	545.6	3559.2	104.6	3663.8	3441.4	159.4	3600.8	260.2	40.7	75.6	225.3	7489.9
1986	192.1	17.0	209.1	373.5	17.4	390.9	10.4	0.1	2.2	8.3	608.3	3621.2	126.1	3747.3	3737.4	182.8	3920.2	261.5	40.3	123.7	178.1	7845.6
1987	166.8	12.8	179.6	383.6	13.8	397.4	9.6	0.1	1.1	8.6	585.6	3803.2	123.9	3927.1	3987.4	189.0	4176.4	221.3	47.0	113.5	154.8	8258.3

Continued on opposite page.

TABLE 13:

U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS *(CONTINUED)*

MILLION POUNDS & *PERCENT*

	MILL CONSUMPTION OF 4 FIBERS										DOMESTIC CONSUMPTION OF 3 FIBERS (CONS)=MILL CONSUMPTION+IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS											
	MAN-MADE FIBER		COTTON		WOOL		SILK		TOTAL		MAN-MADE FIBER			COTTON			WOOL			TOTAL		
YEAR	LB (23)	%	LB (24)	%	LB (25)	%	LB (26)	%	LB (27)	%	IMP (28)	EXP (29)	CONS (30)	IMP (31)	EXP (32)	CONS (33)	IMP (34)	EXP (35)	CONS (36)	IMP (37)	EXP (33)	CONS (39)
1973	7988.2	*67.6*	3643.3	*30.9*	182.1	*1.5*	3.4	--	11817.0	*100.0*	465.3	288.2	8165.3	563.5	325.2	3881.6	61.3	30.8	212.6	1090.1	644.2	12262.9
1974	7067.2	*67.4*	3306.1	*31.5*	116.5	*1.1*	2.6	--	10492.4	*100.0*	371.3	390.7	7047.8	502.7	392.5	3416.3	53.3	23.0	146.8	927.3	806.2	10613.5
1975	6883.0	*68.3*	3068.7	*30.4*	132.0	*1.3*	1.0	--	10084.7	*100.0*	400.4	322.4	6961.0	501.3	353.7	3216.3	48.6	19.2	161.4	950.3	695.3	10339.7
1976	7374.9	*67.6*	3389.0	*31.1*	145.9	*1.3*	2.8	--	10912.6	*100.0*	479.5	352.2	7502.2	708.6	413.2	3684.4	66.7	13.9	198.7	1254.8	779.3	11388.1
1977	8096.2	*71.0*	3169.8	*27.8*	133.9	*1.2*	1.6	--	11401.5	*100.0*	530.7	367.7	8259.2	669.4	369.5	3469.7	85.9	11.5	208.3	1286.0	748.7	11938.8
1978	8341.0	*72.4*	3040.4	*26.4*	141.6	*1.2*	2.0	--	11525.0	*100.0*	642.6	441.7	8541.9	845.4	355.7	3530.1	92.2	11.6	222.2	1580.2	809.0	12296.2
1979	8523.4	*72.7*	3066.4	*26.2*	134.4	*1.1*	1.5	--	11725.7	*100.0*	525.0	596.6	8451.8	746.1	478.0	3334.5	80.6	14.0	201.0	1351.7	1088.6	11988.8
1980	7885.7	*71.1*	3064.4	*27.7*	137.8	*1.2*	1.0	--	11088.9	*100.0*	540.6	771.5	7654.8	810.9	523.1	3352.2	85.1	23.8	199.1	1436.6	1318.4	11207.1
1981	7721.5	*72.8*	2730.8	*25.8*	152.7	*1.4*	2.0	--	10607.0	*100.0*	639.1	637.7	7722.9	961.9	367.3	3325.4	93.1	11.8	234.0	1694.1	1016.8	11284.3
1982	6653.5	*71.8*	2478.9	*26.8*	129.5	*1.4*	2.0	--	9263.9	*100.0*	697.9	438.5	6912.9	897.2	253.4	3122.7	100.1	10.8	218.8	1695.2	702.7	10256.4
1983	7994.5	*73.0*	2795.7	*25.5*	162.5	*1.5*	1.6	--	10954.3	*100.0*	1069.5	460.7	8603.3	1135.5	219.6	3711.6	149.8	11.6	300.7	2354.8	691.9	12617.2
1984	7789.5	*73.3*	2668.2	*25.2*	163.2	*1.5*	1.4	--	10622.3	*100.0*	1342.6	487.9	8644.2	1465.6	206.1	3927.7	210.2	12.0	361.4	3018.4	706.0	12934.7
1985	8035.5	*73.3*	2796.0	*25.5*	134.7	*1.2*	1.5	--	10967.7	*100.0*	1491.0	499.1	9027.4	1629.2	213.2	4212.0	264.8	17.8	381.7	3385.0	730.1	13622.6
1986	8453.9	*70.9*	3301.7	*27.7*	164.5	*1.4*	1.0	--	11921.1	*100.0*	1703.0	519.3	9637.6	1910.5	274.8	4937.4	275.6	16.0	424.1	3889.1	810.1	15000.1
1987	8843.9	*69.3*	3742.9	*29.4*	167.6	*1.3*	1.0	--	12755.4	*100.0*	1805.4	591.9	10057.4	2335.6	298.0	5780.5	276.1	23.4	420.3	4417.1	913.3	16259.2

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.
This table, expanded to include the New MFA Fibers, will be reproduced in a forthcoming issue.

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ( ):

All Census import and export commodity numbers are as of January 1987.

1 & 4:	This issue on page 50.
12 & 15:	This issue on page 51.
7 & 18:	This issue on page 55.
2:	Import Classes 309.0310, .0610, .2000, 310.0106, .0130, .0206, .0230 & .0610.
5:	Import Classes 309.3010, .3310, .4320 & .4325.
8:	Import Classes 309.6615 & .7510.
9:	Export Class 309.7400.
13:	Import Classes 309.0200, .0330, .0340, .0365, .0500, .0630, .0640, .0665, .2100, .2500, 310.0107, .0108, .0110, .0114, .0149, .0150, .0170, .0207, .0208, .0210, .0214, .0249, .0250, .0270, .0550, .0630 & .0650.
16:	Import Classes 309.3030, .3040, .3050, .3065, .3200, .3340, .3350, .3365, .4331, .4336, .4341, .4351, .4361, .4366, .4371 & .4390.
19:	Import Classes 309.6625, .6630, .6645, .6660, .7000 & .7525 - .7555.
20:	Export Classes 309.7620, .7630, .7640 & .7660.
24:	U.S. Census Bureau Report M22P.
25:	U.S. Census Bureau Report M22D.
26:	Import Classes 308.0200 - .2000.
28, 29, 31, 32, 34 & 35:	Cotton and Wool Outlook & Situation (U.S. Department of Agriculture).

CERTAIN TOTALS IN THE TABLES:

(Obvious totals such as Columns 1+2=3, 4+5=6, etc. are not described here.)

10:	Columns 7+8-9
21:	Columns 18+19-20
23:	Columns 11+22
30:	Columns 23+28-29
33:	Columns 24+31-32
36:	Columns 25+34-35

TABLE 14:
RAW FIBER EQUIVALENT OF IMPORTS & EXPORTS OF MAN-MADE FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

COMMODITY	MAN-MADE FIBER							COTTON							WOOL						
	ANNUAL AVERAGE							ANNUAL AVERAGE							ANNUAL AVERAGE						
	1973 - 1977	1978 - 1982	1983	1984	1985	1986	1987	1973 - 1977	1978 - 1982	1983	1984	1985	1986	1987	1973 - 1977	1978 - 1982	1983	1984	1985	1986	1987
IMPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC[a]	24.2	40.1	58.0	71.0	74.7	96.3	91.9	18.2	23.0	42.1	54.6	56.3	105.9	134.5	5.6	5.4	7.6	16.3	14.1	13.7	14.6
CLOTH[b]	85.8	96.9	138.0	170.4	129.1	245.0	211.7	276.2	282.4	346.3	450.8	421.2	532.9	649.9	12.2	24.4	28.1	39.0	36.4	25.9	29.5
SUBTOTAL	**110.0**	**137.0**	**196.0**	**241.4**	**203.8**	**341.3**	**303.6**	**294.4**	**305.4**	**388.4**	**505.4**	**477.5**	**638.8**	**784.4**	**17.8**	**29.8**	**35.7**	**55.3**	**50.5**	**39.6**	**44.1**
MANUFACTURED PRODUCTS																					
WEARING APPAREL[c]	307.8	417.5	576.0	688.9	798.1	929.4	1033.2	239.1	467.0	622.8	759.5	895.5	1016.0	1265.6	30.3	42.6	58.8	80.8	137.0	155.6	158.9
INDUSTRIAL[d]	3.7	0.4	1.3	0.4	0.9	2.7	5.6	6.4	8.2	14.3	37.6	32.4	46.4	53.2	NOMINAL QUANTITIES INCLUDED IN ALL OTHER						
HOME FURNISHINGS[e] }	28.0	54.2	296.1	411.3	394.2	429.2	462.6	34.1	54.8	78.0	138.9	169.7	182.9	205.2	13.7	16.9	34.8	52.1	60.8	62.9	53.1
ALL OTHER[f]								15.1	16.9	31.9	23.4	38.6	26.4	27.3	1.4	0.9	2.6	1.2	0.6	2.4	2.2
SUBTOTAL	**339.5**	**472.1**	**873.4**	**1100.6**	**1193.2**	**1361.3**	**1501.4**	**294.7**	**546.9**	**747.0**	**959.4**	**1136.2**	**1271.7**	**1551.3**	**45.4**	**60.4**	**96.2**	**134.1**	**198.4**	**220.9**	**214.2**
TOTAL IMPORTS	**449.5**	**609.1**	**1069.4**	**1342.0**	**1397.0**	**1702.6**	**1805.0**	**589.1**	**852.3**	**1135.4**	**1464.8**	**1613.7**	**1910.5**	**2335.7**	**63.2**	**90.2**	**131.9**	**189.4**	**248.9**	**260.5**	**258.3**
EXPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC[a]	37.2	49.8	35.3	38.5	50.9	47.9	53.9	19.4	36.3	31.2	20.0	25.8	16.6	19.6	11.6	4.0	4.0	2.7	9.3	6.3	12.7
CLOTH[b]	159.1	235.0	148.6	152.6	158.6	184.2	209.9	220.2	175.9	59.4	64.5	82.2	126.4	107.3	1.0	1.5	1.1	1.4	1.6	2.3	2.4
SUBTOTAL	**196.3**	**284.8**	**183.9**	**191.1**	**209.5**	**232.1**	**263.8**	**239.6**	**212.2**	**90.6**	**84.5**	**108.0**	**143.0**	**126.9**	**12.6**	**5.5**	**5.1**	**4.1**	**10.9**	**8.6**	**15.1**
MANUFACTURED PRODUCTS																					
WEARING APPAREL	32.8	86.4	70.8	79.4	65.2	74.9	82.5	46.4	107.3	72.1	68.2	55.4	73.9	108.4	2.5	6.7	3.0	2.7	3.9	3.8	4.2
INDUSTRIAL[d]	23.3	68.5	23.2	31.3	30.2	46.3	53.8	22.0	20.1	11.6	14.4	16.5	21.0	21.7	NOMINAL QUANTITIES INCLUDED IN ALL OTHER						
HOME FURNISHINGS[e]	46.9	74.2	10.7	102.9	81.9	86.8	101.0	34.7	36.9	31.6	36.9	30.4	36.4	40.1	2.6	0.4	9.3	6.5	3.3	0.2	0.2
ALL OTHER[g]	44.8	63.3	172.1	83.3	73.5	79.1	90.8	28.1	19.0	13.7	0.6	0.4	0.6	0.9	1.9	1.8	1.5	1.8	1.2	1.6	1.8
SUBTOTAL	**147.8**	**292.4**	**276.8**	**296.9**	**250.8**	**287.1**	**328.1**	**131.2**	**183.3**	**129.0**	**120.1**	**102.7**	**131.9**	**171.1**	**7.0**	**8.9**	**13.8**	**11.0**	**8.4**	**5.6**	**6.2**
TOTAL EXPORTS	**344.1**	**577.2**	**460.7**	**488.0**	**460.3**	**519.2**	**591.9**	**370.8**	**395.5**	**219.6**	**204.6**	**210.7**	**274.9**	**298.0**	**19.6**	**14.4**	**18.9**	**15.1**	**19.3**	**14.2**	**21.3**
NET EXPORTS (+) OR NET IMPORTS (-)	**-105.4**	**-31.9**	**-608.7**	**-854.0**	**-936.7**	**-1183.4**	**-1213.1**	**-218.3**	**-456.8**	**-915.8**	**-1260.2**	**-1403.0**	**-1635.6**	**-2037.7**	**-43.6**	**-75.8**	**-113.0**	**-174.3**	**-229.6**	**-246.3**	**-237.0**

SOURCE: U.S. Department of Agriculture, Cotton and Wool Outlook & Situation.

a. Includes sliver, tops, roving, plied (textured and other), thrown and spun yarn, sewing thread and handwork yarns. Man-made fiber yarn singles (textured and other) are not included here; rather they are included in Column 13 page 52 of this issue.

Man-made fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1980-1987 only; the corresponding quantities for each year are, respectively (in millions of pounds): 142.4, 254.0, 166.2, 87.0, 108.8, 162.0, 95.5 & 80.1.

b. Includes broad & narrow woven fabrics and knit cloth, except that cotton narrow fabrics and wool knit fabrics are included in All Other.

c. Includes lace & lace articles, veils & veilings and nets & nettings.

d. The man-made fiber data are tire cord & tire cord fabric.

e. Includes carpets & rugs. Lace window curtains are in All Other.

f. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc. Wool includes knit fabric in the piece, but not lace & lace articles, which are in Wearing Apparel. For 1983-1986,\man-made fiber and cotton include imports of soft-sided luggage. For those years the quantities were respectively, 180.5, 228.0, 157.4 and 169.3 for man-made fiber and 14.1, 18.7, 8.2 & 30.1 for cotton.

g. Includes such products as lace & lace articles, polishing & dustcloths, braids, tassels, etc. Cotton also includes narrow fabric and wool includes knit fabrics.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with man-made fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 15:
PRODUCERS' WASTE SHIPMENTS
MILLION POUNDS

YEAR	RAYON	NONCELLULOSIC	YEAR	RAYON	NONCELLULOSIC
1962	34.5	37.7	1975	13.2	228.7
1963	40.2	42.0	1976	14.7	262.3
1964	49.0	45.9	1977	18.5	291.0
1965	51.5	55.2	1978	15.7	263.9
1966	44.6	66.5	1979	17.2	238.6
1967	36.1	92.8	1980	13.5	170.2
1968	44.3	122.3	1981	15.3	174.2
1969	39.4	140.3	1982	10.7	173.2
1970	34.5	136.3	1983	9.4	214.1
1971	36.3	157.8	1984	11.4	216.9
1972	38.5	202.7	1985	8.8	260.2
1973	36.8	274.8	1986	10.4	261.5
1974	29.9	246.4	1987	9.6	221.3

TABLE 16:
RAW COTTON CONSUMPTION
BALES

MONTH	1979	1980	1981	1982	1983	1984	1985	1986	1987
JANUARY	603	604	435	378	404	469	389	595	546
FEBRUARY	472	506	446	398	430	447	405	499	562
MARCH	506	513	539	492	549	547	504	492	734
APRIL	584	622	433	409	431	430	406	620	573
MAY	484	496	441	392	441	442	426	503	586
JUNE	489	478	531	460	543	501	521	489	708
JULY	503	487	385	317	369	354	366	522	518
AUGUST	472	442	429	386	453	415	458	534	614
SEPTEMBER	482	456	517	474	560	494	562	523	753
OCTOBER	630	597	448	416	459	415	493	683	621
NOVEMBER	482	458	403	390	446	382	477	529	606
DECEMBER	436	475	400	425	468	408	480	568	616
TOTAL	**6143**	**6134**	**5407**	**4937**	**5553**	**5304**	**5487**	**6557**	**7437**

SOURCE: U.S. Department of Commerce, Bureau of the Census Report M22P.

TABLE 17:
RAW SILK DELIVERIES
BALES

MONTH	1979	1980	1981	1982	1983	1984	1985	1986	1987
JANUARY	501	312	471	450	280	715	462	410	411
FEBRUARY	302	644	380	489	506	537	689	504	680
MARCH	687	422	471	662	390	455	344	197	572
APRIL	353	507	446	398	462	315	480	244	526
MAY	471	366	322	234	717	636	415	225	245
JUNE	418	285	529	369	377	655	NA	227	447
JULY	407	257	300	495	264	229	NA	555	253
AUGUST	756	332	259	403	474	672	NA	NA	327
SEPTEMBER	492	342	348	364	534	532	NA	NA	330
OCTOBER	490	365	414	226	529	562	NA	NA	470
NOVEMBER	368	265	487	514	587	391	NA	NA	239
DECEMBER	518	323	611	317	324	538	NA	NA	448
TOTAL	**5763**	**4420**	**5038**	**4921**	**5444**	**6237**	**4813**	**4272**	**4948**

SOURCE: International Silk Association.
NA Monthly data not available.

TABLE 18:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0												0	29
OTHER	310.0130 & .0230[a]	1362												1362	1237
MONOFILAMENTS	309.0310 & .0610	0												0	0
STRIPS, $1/LB & UNDER	309.2000*	11												11	1
SUBTOTAL ABOVE		**1373**												**1373**	**1267**
STAPLE	309.4320 & .4325	1182												1182	867
GROUPED FILAMENTS	309.3010 & .3310	122												122	118
SUBTOTAL ABOVE		**1304**												**1304**	**985**
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	0												0	0
NONCELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341												341	142
DENIER AND OVER	310.0108 & .0208	1503												1503	2592
- POLYESTER	310.0110 & .0210	989												989	1000
- OTHER	310.0114 & .0214	2158												2158	1876
OTHER - NYLON	310.0149 & .0249	1154												1154	2008
- POLYESTER	310.0150 & .0250	2153												2153	1918
- OTHER	310.0170 & .0270[b]	762												762	445
MONOFILAMENTS	309.0200 & .0330[c]	381												381	272
STRIPS, OVER $1/LB	309.2100 & .2500*	177												177	199
SUBTOTAL ABOVE		**9618**												**9618**	**10452**
STAPLE - NYLON	309.4331 & .4351	1696												1696	5346
- POLYESTER	309.4336 & .4361	4653												4653	5335
- ACRYLIC	309.4366	1214												1214	1216
- OLEFIN	309.4371	83												83	2
- OTHER	309.4341 & .4390	1350												1350	479
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713												3713	3012
POLYESTER	309.3040 & .3340	441												441	367
ACRYLIC	309.3050 & .3350	1086												1086	861
OTHER	309.3065 & .3365	106												106	139
SUBTOTAL ABOVE		**14342**												**14342**	**16757**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940												2940	2279
- POLYESTER	309.6630	550												550	1077
- ACRYLIC	309.6645	0												0	20
- OTHER	309.6660	221												221	415
NOILS & GARNETTED FIBERS	309.7000*	80												80	0
OTHER WASTE, ADVANCED	309.7525 - .7555	596												596	42
SUBTOTAL ABOVE		**4387**												**4387**	**3833**
TOTAL MAN-MADE ABOVE		**31024**												**31024**	**33294**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0												0	0
- NONCELLULOSIC	310.1015[d]& .1205[e]	340												340	142
OTHER - CELLULOSIC	310.1030 & .1535[f]	15												15	8
- NONCELLULOSIC	310.1050 & .1070[g]	276												276	336
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	62												62	151
- OTHER	310.4015 & .4027[i]	2503												2503	2574
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2122												2122	1493
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	607												607	831
SLIVER, TOPS & ROVING	309.9000	271												271	383
TEXTILE GLASS FIBER	309.2800 & .2900[k]	2526												2526	1431
GRAND TOTAL ABOVE		**39746**												**39746**	**40643**

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

◆ Less than 1 thousand pounds.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

[a] Also includes 310.0610

[b] Also includes 310.0530, .0550, .0630 & .0650

[c] Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

[d] There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

[e] Also includes 310.1210.

[f] Also includes 310.2110.

[g] Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

[h] Also includes 310.5005 & .5030.

[i] Also includes 310.4046, .4047, 4050, .5015, .5046, .5047, .5049 & .5051.

[j] Also includes 310.9320 & .9500.

[k] Chiefly roving. Also includes 309.9800 & .9900.

TABLE 19:
U.S. EXPORTS OF MAN-MADE FIBER
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
FILAMENT YARN [a]															
TEXTURED	310.0004	27												27	43
OTHER [b]	310.0026	683												683	475
MONOFILAMENTS	309.0110	89												89	0
STRIPS	309.2210	0												0	1
SUBTOTAL ABOVE		**799**												**799**	**519**
STAPLE+TOW-RAYON	309.4222	1019												1019	3930
STAPLE-ACETATE	309.4219	89												89	33
SUBTOTAL ABOVE		**1108**												**1108**	**3963**
WASTE, ADVANCED&NOT ADVANCED	309.7400	**143**												**143**	**231**
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651												3651	2678
- HIGH TENACITY [c]	310.0027	8372												8372	7294
- OTHER	310.0029	786												786	636
POLYESTER - TEXTURED	310.0010	1739												1739	2151
- HIGH TENACITY [c]	310.0032	1421												1421	1691
- OTHER [d]	310.0034	207												207	160
OTHER - TEXTURED	310.0014	1067												1067	1053
- OLEFIN	310.0040	83												83	74
- OTHER	310.0044	360												360	389
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	658												658	416
POLYESTER	309.0140	1641												1641	322
OTHER	309.0170	680												680	478
STRIPS	309.2220 & .2270	415												415	259
SUBTOTAL ABOVE		**21080**												**21080**	**17601**
STAPLE - NYLON	309.4240	2423												2423	2060
- POLYESTER	309.4242	13519												13519	18819
- ACRYLIC	309.4245	17224												17224	4792
- OLEFIN	309.4246	1488												1488	1893
- OTHER	309.4247	1228												1228	1004
GROUPED FILAMENTS															
NYLON	309.3220	693												693	283
POLYESTER [d]	309.3240	2108												2108	1941
ACRYLIC	309.3250 & .3255	4966												4966	1653
SUBTOTAL ABOVE		**43649**												**43649**	**32445**
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	685												685	1021
- POLYESTER	309.7630	3959												3959	2830
- ACRYLIC	309.7640	312												312	1086
- OTHER	309.7660	3765												3765	2543
SUBTOTAL ABOVE		**8721**												**8721**	**7480**
TOTAL MAN-MADE ABOVE		**75500**												75500	62239
TEXTILE GLASS FIBER	309.2700 & .9700	8813												8813	5992
GRAND TOTAL ABOVE		**84313**												84313	68231

SOURCE: U.S. Census Bureau Report EM522.

+ Less than 1 thousand pounds.

a. Includes thrown, singles and plied yarn.

b. Includes rayon tire cord and cord fabric.

c. Includes noncellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

TABLE 20:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1988												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0												0	0
BRAZIL	54												54	86
CANADA	426												426	425
GERMANY, FED. REP.	353												353	442
JAPAN	277												277	209
MEXICO	62												62	3
NETHERLANDS	190												190	101
ALL OTHER COUNTRIES [a]	11												11	1
TOTAL CELLULOSIC YARN	1373												1373	1267
CELLULOSIC STAPLE+TOW														
CANADA	1086												1086	749
ITALY	34												34	88
JAPAN	99												99	59
SWEDEN	0												0	43
UNITED KINGDOM	57												57	46
ALL OTHER COUNTRIES [b]	28												28	0
TOTAL CELLULOSIC STAPLE+TOW	1304												1304	985
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436												1436	1408
CANADA	1448												1448	890
CHINA, PRC	0												0	0
COSTA RICA	606												606	729
DENMARK	0												0	31
FRANCE	767												767	686
GERMANY, FED. REP.	1074												1074	1744
IRELAND	37												37	81
ISRAEL	388												388	162
ITALY	761												761	1202
JAPAN	648												648	992
KOREA, REP. OF	3												3	41
MEXICO	1428												1428	1167
NETHERLANDS	49												49	93
SINGAPORE	81												81	73
SWITZERLAND	32												32	253
TAIWAN	12												12	14
UNITED KINGDOM	676												676	735
ALL OTHER COUNTRIES [c]	172												172	151
TOTAL NONCELLULOSIC YARN	9618												9618	10452
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601												601	61
BELGIUM	35												35	21
BRAZIL	0												0	0
CANADA	2003												2003	3125
FRANCE	934												934	955
GERMANY, FED. REP.	2738												2738	2586
IRELAND	80												80	109
ISRAEL	8												8	62
ITALY	130												130	2265
JAPAN	1963												1963	1849
KOREA, REP. OF	1355												1355	935
MALAYSIA	0												0	48
MEXICO	303												303	1586
ROMANIA	448												448	372
SWITZERLAND	102												102	71
TAIWAN	1986												1986	1911
UNITED KINGDOM	1604												1604	777
ALL OTHER COUNTRIES [d]	52												52	24
TOTAL NONCELLULOSIC STAPLE+TOW	14342												14342	16757

+ Less than 1 thousand pounds.

a. Korea, Rep. of 11.

b. Australia 25, Germany, Fed. Rep. of 2, Belgium 1.

c. Spain 66, Australia 34, Argentina 28, Chile 22, Romania 12, Turkey 10, India.

d. Australia 38, Hong Kong 11, Egypt 2, Portugal 1, Philippines.

TABLE 21:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1987 REVISED												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
MAN-MADE FIBER TOTAL SHIPMENTS[b,c]														
CELLULOSIC														
YARN	14.6	13.7	15.9	16.5	16.1	16.9	14.6	14.8	16.9	17.1	15.7	18.9	191.7	212.3
RAYON STAPLE	34.1	29.7	36.1	33.2	31.6	34.4	33.6	37.0	39.9	36.5	32.8	36.6	415.5	403.8
TOTAL CELLULOSIC	**48.7**	**43.4**	**52.0**	**49.7**	**47.7**	**51.3**	**48.2**	**51.8**	**56.8**	**53.6**	**48.5**	**55.5**	**607.2**	**616.1**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[e]	31.0	32.8	30.6	29.5	35.7	30.0	30.6	31.2	29.6	31.7	30.3	30.4	373.4	333.4
- CARPET	75.1	77.6	79.9	76.9	86.2	78.5	80.4	82.5	89.1	78.1	65.3	72.0	941.6	898.5
- TEXTILE[g]	30.5	30.4	33.5	32.1	32.4	31.4	31.1	31.5	33.5	30.1	31.2	31.1	378.8	360.5
POLYESTER - INDUSTRIAL[e]	26.6	27.6	29.4	27.7	28.0	26.9	26.1	29.6	30.7	30.3	27.1	28.8	338.8	313.9
- TEXTILE[g]	63.3	64.0	72.3	75.7	73.6	71.7	72.3	65.9	72.0	70.9	72.4	67.4	841.5	855.8
OLEFIN[f]	92.3	87.6	84.3	88.9	91.4	103.2	83.2	99.1	107.0	99.7	97.4	109.7	1143.8	1059.7
TOTAL YARN	**318.8**	**320.0**	**330.0**	**330.8**	**347.3**	**341.7**	**323.7**	**339.8**	**361.9**	**340.8**	**323.7**	**339.4**	**4017.9**	**3821.8**
STAPLE+TOW+FIBERFILL														
NYLON	84.1	81.2	86.2	88.7	91.1	78.4	81.6	84.2	84.1	88.4	71.4	66.1	985.5	908.2
ACRYLIC+MODACRYLIC	49.2	50.7	54.2	51.2	52.3	45.1	47.5	50.0	47.3	51.4	43.5	52.0	594.4	614.1
POLYESTER	184.8	192.2	205.6	195.1	193.4	208.4	181.6	186.5	207.7	205.3	199.4	209.2	2369.2	2123.4
OLEFIN+VINYON[d]	28.2	27.9	31.9	31.1	30.0	30.3	26.9	32.0	32.6	31.3	30.8	30.9	363.9	331.5
TOTAL STAPLE	**346.3**	**352.0**	**377.9**	**366.1**	**366.8**	**362.2**	**337.6**	**352.7**	**371.7**	**376.4**	**345.1**	**358.2**	**4313.0**	**3977.2**
TOTAL NONCELLULOSIC	**665.1**	**672.0**	**707.9**	**696.9**	**714.1**	**703.9**	**661.3**	**692.5**	**733.6**	**717.2**	**668.8**	**697.6**	**8330.9**	**7799.0**
TOTAL MAN-MADE FIBER	**713.8**	**715.4**	**759.9**	**746.6**	**761.8**	**755.2**	**709.5**	**744.3**	**790.4**	**770.8**	**717.3**	**753.1**	**8938.1**	**8415.1**
MAN-MADE FIBER END-OF-MONTH STOCK														
CELLULOSIC														
YARN	17.9	18.2	16.8	15.2	14.7	14.0	14.0	13.3	12.9	12.0	11.6	14.2	14.2	14.8
RAYON STAPLE	24.3	26.1	23.8	24.7	25.9	25.1	25.0	21.2	18.2	16.3	18.2	20.7	20.7	22.4
TOTAL CELLULOSIC	**42.2**	**44.3**	**40.6**	**39.9**	**40.6**	**39.1**	**39.0**	**34.5**	**31.1**	**28.3**	**29.8**	**34.9**	**34.9**	**37.2**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[e]	29.2	24.9	26.7	29.0	27.0	25.8	26.5	24.9	22.8	22.2	21.8	20.9	20.9	30.8
- CARPET	56.6	55.5	52.3	52.4	48.3	47.7	52.7	49.3	45.2	47.6	60.4	65.4	65.4	54.7
- TEXTILE[g]	49.6	49.4	46.5	47.2	47.6	46.8	48.6	47.0	45.7	46.4	48.3	49.9	49.9	47.3
POLYESTER - INDUSTRIAL[e]	30.6	30.0	27.8	29.0	28.5	29.4	31.6	28.1	25.2	23.5	24.5	27.8	27.8	29.4
- TEXTILE[g]	85.6	88.8	87.6	83.2	80.0	85.7	85.6	85.0	87.2	86.0	82.5	81.5	81.5	81.5
OLEFIN[f]	54.7	55.6	54.5	56.3	56.0	54.9	57.0	55.7	53.0	54.1	56.7	52.9	52.9	62.9
TOTAL YARN	**306.3**	**304.2**	**295.4**	**297.1**	**287.4**	**290.3**	**302.0**	**290.0**	**279.1**	**279.8**	**294.2**	**298.4**	**298.4**	**306.6**
STAPLE+TOW+FIBERFILL														
NYLON	59.3	53.8	58.7	57.7	56.4	61.5	66.9	61.6	64.4	61.7	68.9	69.7	69.7	62.8
ACRYLIC+MODACRYLIC	68.2	67.9	67.8	70.1	71.6	78.2	73.9	70.0	68.7	63.8	66.6	63.3	63.3	66.2
POLYESTER	178.0	169.8	162.3	162.4	171.7	161.6	182.1	180.6	164.2	166.5	163.7	156.5	156.5	163.9
OLEFIN+VINYON[d]	33.3	32.6	31.0	30.3	30.8	31.9	34.5	32.9	32.5	32.6	32.5	30.1	30.1	33.5
TOTAL STAPLE	**338.8**	**324.1**	**319.8**	**320.5**	**330.5**	**333.2**	**357.4**	**345.1**	**329.8**	**324.6**	**331.7**	**319.6**	**319.6**	**326.4**
TOTAL NONCELLULOSIC	**645.1**	**628.3**	**615.2**	**617.6**	**617.9**	**623.5**	**659.4**	**635.1**	**608.9**	**604.4**	**625.9**	**618.0**	**618.0**	**633.0**
TOTAL MAN-MADE FIBER	**687.3**	**672.6**	**655.8**	**657.5**	**658.5**	**662.6**	**698.4**	**669.6**	**640.0**	**632.7**	**655.7**	**652.9**	**652.9**	**670.2**
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	13.8	13.1	15.0	13.8	13.4	13.8	10.6	10.8	13.6	12.3	12.8	11.4	154.4	154.3
CARPET CLASS WOOL	0.8	0.8	1.2	1.3	1.3	0.8	1.2	1.4	1.2	1.5	1.1	0.6	13.2	10.2
TOTAL RAW WOOL	14.6	13.9	16.2	15.1	14.7	14.6	11.8	12.2	14.8	13.8	13.9	12.0	167.6	164.5
RAW COTTON	302.3	281.8	341.4	301.8	308.4	328.2	261.6	293.4	394.1	327.7	335.5	263.4	3739.6	3301.7

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. 1987 data exclude Vinyon.

e. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

f. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

g. Includes low denier industrial yarn.

TABLE 22:
FILAMENT YARN DOMESTIC SHIPMENTS [a]

MILLION POUNDS

(C) CELLULOSIC YARN [j] (N) NYLON (P) POLYESTER (O) OLEFIN

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1986				1987			
		1984	1985	1986	1987	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
HOSIERY [b]	N	101.5	98.1	95.1	93.2	26.5	25.3	22.8	20.5	23.6	23.5	23.8	22.3
OTHER CIRCULAR KNIT [c]	N	17.6	12.9	21.3	25.3	4.3	6.0	4.0	7.0	7.7	7.0	6.1	4.5
	P	174.7	151.2	150.3	135.3	38.6	37.4	37.3	37.0	28.8	38.0	34.9	33.6
	C	2.3	2.6	2.0	1.1	0.6	0.6	0.6	0.2	0.4	0.3	0.2	0.2
FLAT KNIT	C	67.2	53.0	47.8	27.9	11.4	13.7	11.7	11.0	8.7	8.1	5.0	6.1
	N	135.2	143.6	133.8	131.4	36.8	33.2	32.5	31.3	32.0	32.6	33.2	33.6
	P	137.3	160.8	167.1	162.5	38.7	38.9	44.5	45.0	37.5	40.6	41.3	43.1
CARPET FACE	N	770.2	815.4	881.4	916.0	207.0	217.8	235.6	221.0	228.5	235.4	246.1	206.0
	O	154.1	202.1	215.7	244.5	49.7	50.5	53.9	61.6	58.4	60.8	63.0	62.3
CARPET BACKING [d]	O	227.8	354.6	404.1	425.3	89.1	98.0	99.4	117.6	98.1	106.9	110.2	110.1
OTHER BROAD WOVEN [e]	C	108.8	111.3	126.3	122.8	31.9	31.9	31.7	30.8	26.3	31.7	31.4	33.4
	N	90.7	71.4	76.2	79.4	20.2	19.7	18.0	18.3	17.7	19.6	21.4	20.7
	P	392.2	420.1	344.4	379.4	87.1	77.5	89.3	90.5	94.7	97.0	91.8	95.9
	O	190.3	225.7	271.5	317.7	61.4	66.7	69.3	74.1	68.9	77.1	80.3	91.4
NARROW WOVEN [f]	C	0.7	1.5	2.0	2.2	0.9	0.2	0.3	0.6	0.4	0.4	0.4	1.0
	N	39.9	31.1	33.9	42.1	8.0	8.6	8.5	8.8	10.2	11.3	10.6	10.0
	P	38.7	40.0	44.0	66.2	11.5	10.7	10.9	10.9	12.7	17.1	18.7	17.7
	O	14.9	15.2	17.5	17.7	4.5	4.5	4.4	4.1	4.1	3.6	4.6	5.4
TIRES, INCL. CHAFER [g]	N	172.9	146.0	134.2	143.0	35.8	33.5	30.5	34.4	38.8	32.5	35.9	35.8
	P	174.4	155.5	159.3	162.8	44.7	37.4	39.5	37.7	40.1	40.5	40.9	41.3
OTHER RUBBER INDUSTRY [c g]	N	20.9	15.3	15.2	16.4	4.2	3.6	4.0	3.4	3.8	4.4	4.0	4.2
	P	32.7	31.2	27.2	34.5	2.9	8.4	8.2	7.7	8.6	8.8	8.7	8.4
ROPE, CORDAGE & FISHLINE	N	35.0	35.3	36.4	37.9	9.6	9.5	8.4	8.9	9.2	9.8	10.4	8.5
	P	15.7	13.8	13.0	13.4	3.4	3.4	2.9	3.3	3.4	3.1	3.5	3.4
	O	106.9	108.2	106.3	106.7	27.0	28.2	23.4	27.7	25.0	28.2	24.5	29.0
ALL OTHER [h]	C	1.1	18.7	14.0	12.8	3.8	4.0	3.4	2.8	3.4	3.1	3.2	3.1
	N	54.2	48.3	52.1	69.6	11.0	11.5	13.4	16.2	17.8	18.7	14.3	18.8
	P	179.2	231.7	187.1	159.3	57.9	39.8	41.1	48.3	41.0	40.1	41.0	37.2
	O	31.6	31.8	34.1	23.6	9.6	10.5	7.4	6.6	7.0	5.2	4.9	6.5
TOTAL ABOVE	C	**180.1**	**187.1**	**192.1**	**166.8**	**48.6**	**50.4**	**47.7**	**45.4**	**39.2**	**43.6**	**40.2**	**43.8**
	N	**1438.1**	**1417.4**	**1479.6**	**1554.3**	**363.4**	**368.7**	**377.7**	**369.8**	**389.3**	**394.8**	**405.8**	**364.4**
	P	**1144.9**	**1204.2**	**1092.4**	**1113.4**	**284.8**	**253.5**	**273.7**	**280.4**	**266.8**	**285.2**	**280.8**	**280.6**
	O	**725.6**	**937.6**	**1049.2**	**1135.5**	**241.3**	**258.4**	**257.8**	**291.7**	**261.5**	**281.8**	**287.5**	**304.7**
TOTAL DOMESTIC		**3488.7**	**3746.3**	**3813.3**	**3970.0**	**938.1**	**931.0**	**956.9**	**987.3**	**956.8**	**1005.4**	**1014.3**	**993.5**
ALSO DIVIDED AS													
APPAREL		*1072.1*	*1064.7*	*949.4*	*932.3*	*247.4*	*236.3*	*231.0*	*234.7*	*225.7*	*248.1*	*230.6*	*227.9*
HOME FURNISHINGS		*1354.2*	*1624.9*	*1746.8*	*1836.3*	*405.5*	*419.7*	*454.8*	*466.8*	*442.0*	*467.1*	*482.5*	*444.7*
INDUSTRIAL		*1062.4*	*1056.7*	*1117.1*	*1201.4*	*285.2*	*275.0*	*271.1*	*285.8*	*289.1*	*290.2*	*301.2*	*320.9*
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET) [i]													
NYLON		118.7	114.9	115.8	NA	29.7	31.3	28.5	26.3	NA	NA	NA	NA
POLYESTER		675.5	776.3	634.6	626.3	168.9	144.0	158.1	163.6	149.3	165.8	156.1	155.1
OLEFIN		23.3	22.3	22.9	26.6	5.1	5.8	5.9	6.1	6.1	6.9	6.0	7.6

NA No longer available.

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small quantities of polyester and cellulosic yarn are included in All Other.

c. Small quantities of olefin are included in All Other.

d. Small quantities of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Cellulosic yarn quantities included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.

i. These quantities are included in the Total Domestic area above.

j. Data for 1984 contain acetate yarn only. Data for 1985-1987 contain acetate and rayon yarn.

TABLE 23:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

		ANNUAL DATA				QUARTERLY DATA							
						1986				1987			
ITEM		1984	1985	1986	1987	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(R) RAYON (N) NYLON (A) ACRYLIC+MODACRYLIC (P) POLYESTER (O) OLEFIN													
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	204.8	197.2	228.8	192.4	57.2	62.1	54.9	54.6	57.0	51.4	44.6	39.4
	NPR	6.6	5.5	5.1	3.5	1.4	1.2	1.4	1.1	0.8	0.8	0.9	1.0
PILE FABRICS[b]	A	30.0	24.5	23.2	20.8	6.0	6.6	6.2	4.4	5.6	5.7	5.1	4.4
	P	18.4	14.9	15.0	19.7	4.1	3.5	3.9	3.5	4.4	5.1	6.2	4.0
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	4.3	5.5	4.7	3.7	1.1	1.1	1.1	1.4	1.2	1.3	0.6	0.6
	A	118.5	139.[illegible]	196.3	185.1	38.7	55.6	56.7	45.3	55.7	53.8	42.9	32.7
	P	283.0	295.5	367.8	453.3	87.9	89.2	89.7	101.0	115.2	117.6	106.3	114.2
BLANKETS[b]	A	25.2	30.2	26.7	25.7	6.6	6.7	7.7	5.7	5.9	6.6	7.6	5.6
	P	5.5	6.2	3.7	9.2	0.8	1.0	1.3	0.6	1.3	1.8	2.8	3.3
OTHER BROAD WOVEN	R	177.7	174.9	218.0	230.7	53.9	53.2	55.1	55.8	52.9	55.2	59.9	62.7
	N	42.5	37.4	37.0	38.7	10.0	9.7	8.6	8.7	9.2	8.1	11.1	10.3
	A	29.5	38.2	35.3	41.7	9.8	8.4	8.4	8.7	9.9	10.9	10.1	10.8
	P	1039.1	864.9	885.6	839.2	226.8	229.8	218.3	210.7	205.3	218.1	202.9	212.9
	O	22.1	26.9	18.0	20.2	1.0	5.0	4.9	7.1	4.8	4.7	5.5	5.2
CARPET FACE YARNS[f]	R	0.3	0.5	0.4	+	0.1	0.2	+	0.1	+	+	0	0
	N	751.0	773.9	837.8	905.1	180.1	188.6	240.8	228.3	230.2	239.3	230.6	205.0
	P	131.4	126.8	145.0	209.0	31.3	38.4	36.9	38.4	46.8	50.7	51.4	60.1
	O	96.5	107.4	117.2	116.2	25.4	30.4	28.1	33.3	24.3	28.9	31.5	31.5
FIBERFILL[d]	P	276.1	281.1	294.9	348.6	71.6	69.1	74.4	79.8	88.9	80.7	83.6	95.4
FLOCK	NP	9.2	5.3	5.9	5.5	1.6	1.4	1.2	1.7	1.6	1.0	1.3	1.6
	R	2.7	1.8	1.8	0.9	0.6	0.4	0.5	0.3	0.5	0.4	0	0
NONWOVENS[e,f]	R	126.3	113.5	125.4	124.4	31.7	33.2	32.9	27.6	31.1	28.6	31.8	32.9
	N	2.8	2.5	2.1	1.9	0.5	0.5	0.6	0.5	0.4	0.4	0.5	0.6
	P	177.2	162.5	175.3	204.2	46.5	41.4	42.4	45.0	48.7	47.7	51.4	56.4
	[g] VINYON+O	119.2	135.8	166.2	198.0	42.3	45.2	41.1	37.6	49.4	50.4	47.8	50.4
ALL OTHER	R	18.8	25.9	20.8	22.7	3.7	3.5	5.0	8.6	6.0	5.3	5.4	6.0
	N	9.4	11.2	11.9	14.8	2.9	3.0	3.0	3.0	4.6	4.4	2.8	3.0
	A	38.7	29.5	20.9	13.6	4.8	4.3	4.8	7.0	5.3	3.2	2.5	2.6
	P	56.2	116.9	108.3	115.0	29.3	26.7	28.6	23.7	23.3	27.6	32.1	32.0
	[g] VINYON+O	3.1	9.6	11.3	6.7	5.2	2.0	2.3	1.8	2.6	1.7	1.3	1.1
TOTAL ABOVE	**R**	**331.9**	**323.7**	**373.0**	**383.1**	**91.6**	**92.0**	**95.1**	**94.3**	**91.8**	**91.0**	**97.9**	**102.4**
	N	**814.4**	**830.3**	**894.9**	**966.0**	**195.2**	**203.2**	**254.3**	**242.2**	**246.2**	**253.2**	**246.2**	**220.4**
	A	**446.7**	**458.7**	**531.2**	**479.3**	**123.1**	**143.7**	**138.7**	**125.7**	**139.4**	**131.6**	**112.8**	**95.5**
	P	**1992.2**	**1872.7**	**1998.6**	**2201.0**	**499.1**	**499.9**	**496.3**	**503.3**	**534.4**	**549.9**	**537.5**	**579.2**
	[g] VINYON+O	**240.9**	**279.7**	**312.7**	**341.1**	**73.9**	**82.6**	**76.4**	**79.8**	**81.1**	**85.7**	**86.1**	**88.2**
TOTAL DOMESTIC		**3826.1**	**3765.1**	**4110.4**	**4370.5**	**982.9**	**1021.4**	**1060.8**	**1045.3**	**1092.9**	**1111.4**	**1080.5**	**1085.7**
ALSO DIVIDED AS													
APPAREL		*1277.1*	*1255.0*	*1489.3*	*1479.9*	*363.6*	*390.5*	*372.6*	*362.6*	*386.0*	*388.9*	*351.3*	*353.7*
HOME FURNISHINGS		*1559.0*	*1536.9*	*1625.8*	*1755.8*	*371.0*	*385.1*	*436.8*	*432.9*	*425.1*	*450.6*	*448.3*	*431.8*
INDUSTRIAL		*992.1*	*973.2*	*995.3*	*1134.8*	*248.3*	*245.8*	*251.4*	*249.8*	*281.8*	*271.9*	*280.9*	*300.2*

[a] Olefin quantities are included in All Other.
[b] Rayon and nylon quantities are included in All Other.
[c] Nylon quantities are included in All Other.
[d] Rayon, acrylic and nylon quantities are included in All Other.
[e] Wet & dry laid and needled batts only.
[f] Acrylic quantities are included in All Other.
[g] 1987 data exclude Vinyon.

TABLE 24:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1988												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
	MAN-MADE FIBER TOTAL SHIPMENTS [b c]													
CELLULOSIC														
YARN	15.9	16.1											32.0	28.3
RAYON STAPLE	32.6	35.9											68.5	63.8
TOTAL CELLULOSIC	48.5	52.0											100.5	92.1
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5	32.1											59.6	63.8
- CARPET	72.6	80.7											153.3	152.7
- TEXTILE[f]	30.0	31.2											61.2	60.9
POLYESTER - INDUSTRIAL[d]	26.5	29.3											55.8	54.2
- TEXTILE[f]	62.9	68.4											131.3	127.3
OLEFIN[e]	97.2	104.6											201.8	179.9
TOTAL YARN	316.7	346.3											663.0	638.8
STAPLE+TOW+FIBERFILL														
NYLON	78.0	81.7											159.7	165.3
ACRYLIC+MODACRYLIC	48.5	52.8											101.3	99.9
POLYESTER	190.4	202.4											392.8	377.0
OLEFIN	29.1	29.0											58.1	56.1
TOTAL STAPLE	346.0	365.9											711.9	698.3
TOTAL NONCELLULOSIC	622.7	712.2											1374.9	1337.1
TOTAL MAN-MADE FIBER	711.2	764.2											1475.4	1429.2
	MAN-MADE FIBER END-OF-MONTH STOCK													
CELLULOSIC														
YARN	12.3	13.3											13.3	18.2
RAYON STAPLE	23.5	22.5											22.5	26.1
TOTAL CELLULOSIC	35.8	35.8											35.8	44.3
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6	25.7											25.7	24.9
- CARPET	72.0	66.5											66.5	55.5
- TEXTILE[f]	51.8	50.1											50.1	49.4
POLYESTER - INDUSTRIAL[d]	29.8	29.2											29.2	30.0
- TEXTILE[f]	82.5	81.5											81.5	88.8
OLEFIN[e]	54.4	55.0											55.0	55.6
TOTAL YARN	317.1	308.0											308.0	304.2
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7											64.7	53.8
ACRYLIC+MODACRYLIC	62.4	58.8											58.8	67.9
POLYESTER	173.7	168.3											168.3	169.8
OLEFIN	32.5	33.7											33.7	32.6
TOTAL STAPLE	332.0	325.5											325.5	324.1
TOTAL NONCELLULOSIC	649.1	633.5											633.5	628.3
TOTAL MAN-MADE FIBER	684.9	669.3											669.3	672.6
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL														
CARPET CLASS WOOL														
TOTAL RAW WOOL														
RAW COTTON	282.2												282.2	302.3

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

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MAN-MADE

FIBER REVIEW

A Monthly Summary of Fiber Production Information Vol. 6, No. 6 JUNE 1987

HIGHLIGHTS

- SAMPLE -

In May, production of noncellulosic fibers (except aramid, saran and spandex) totaled 712.8 million pounds, 2.1% above the 698.2 million pounds produced in April. Filament yarn production rose 1.4% to 336.0 million pounds and staple+tow rose 2.7% to 376.8 million pounds.

Shipments of noncellulosic fibers (except aramid, saran and spandex) rose in May to 712.5 million pounds, up 2.2% from the 696.9 million pounds shipped in April. Deliveries of filament yarn rose 4.8% to 345.7 million pounds and shipments of staple+tow rose 0.2% to 366.8 million pounds.

May producer exports of polyester staple+tow fell 12.2% to 13.6 million pounds and exports of acrylic+ modacrylic staple+tow rose to 7.4 million pounds, up 95.0%. For May 1987, producer exports of polyester staple+tow were 39.0% above the 9.8 million pounds exported in May 1986.

May shipments of noncellulosic fibers to the carpet trades rose to 185.4 million pounds, up 7.0% from the 173.3 million pounds shipped in April. Nylon staple+tow rose by 2.9%, nylon yarn rose by 12.0% and polyester staple+tow rose by 4.3%.

As of the end of May, stocks of noncellulosic fibers rose to 617.9 million pounds, up 0.1% from 617.6 million pounds in April. Stocks of staple+tow rose 3.1% and stocks of filament yarn fell 3.3%.

MAN-MADE FIBER PRODUCTION DATA

MILLION POUNDS & *PERCENT CHANGE*

ITEM	1987			1986		YEAR TO DATE		
	MAY	APR	%[a]	MAY	%[b]	1987	1986	%[c]
YARN+MONOFILAMENTS								
CELLULOSIC YARN	15.6	14.9	*+4.7*	19.0	*-17.9*	76.7	91.5	*-16.2*
NYLON[d] - INDUSTRIAL	33.7	31.8	*+6.0*	28.7	*+17.4*	155.8	143.0	*+9.0*
- CARPET	82.1	77.0	*+6.6*	77.7	*+5.7*	389.3	371.3	*+4.8*
- TEXTILE[e]	32.8	32.8	--	31.7	*+3.5*	159.2	154.4	*+3.1*
POLYESTER - INDUSTRIAL	27.5	28.9	*-4.8*	26.1	*+5.4*	138.4	137.5	*+0.7*
- TEXTILE[e]	70.4	71.3	*-1.3*	68.0	*+3.5*	347.4	374.0	*-7.1*
OLEFIN	89.5	89.6	*-0.1*	81.9	*+9.3*	442.5	414.1	*+6.9*
TOTAL NONCELLULOSIC ABOVE	336.0	331.4	*+1.4*	314.1	*+7.0*	1632.6	1594.3	*+2.4*
STAPLE +TOW+FIBERFILL								
RAYON	32.8	34.1	*-3.8*	33.2	*-1.2*	168.2	161.4	*+4.2*
NYLON[d]	89.8	87.7	*+2.4*	70.8	*+26.8*	424.9	363.4	*+16.9*
ACRYLIC+MODACRYLIC	53.8	53.5	*+0.6*	52.0	*+3.5*	263.0	250.3	*+5.1*
POLYESTER	202.7	195.2	*+3.8*	185.7	*+9.2*	978.9	884.9	*+10.6*
OLEFIN+VINYON[f]	30.5	30.4	*+0.3*	27.3	*+11.7*	146.4	135.6	*+8.0*
TOTAL NONCELLULOSIC ABOVE	376.8	366.8	*+2.7*	335.8	*+12.2*	1813.2	1634.2	*+11.0*

a. Percent change from previous monthtocurrent month.
b. Percent change to current month from same month last year.
c. Percent change from cumulative total last year to cumulative total this year.
d. Nylon excludes Aramid.
e. Low denier industrial nylon and polyester is included with Textile.
f. 1987 data no longer includes Vinyon.

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NONCELLULOSIC YARN+MONOFILAMENTS
PRODUCTION, SHIPMENTS & STOCK
MONTHLY 1987
MILLION POUNDS

	1987												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
NYLON														
INDUSTRIAL[a]														
Domestic Shipments-Tires	13.6	15.3	14.7	12.0	11.7								67.3	62.1
-Other	8.0	8.2	9.3	9.9	9.6								45.0	44.6
Export	9.4	9.3	6.6	7.6	14.4								47.3	34.6
Ending Stock	29.2	24.9	26.7	29.0	27.0								27.0	27.2
CARPET														
Domestic Shipments	73.9	76.0	78.6	75.1	84.1								387.7	351.3
Export	1.2	1.6	1.3	1.8	2.1								8.0	7.4
Ending Stock	56.6	55.5	52.3	52.4	48.3								48.3	59.0
TEXTILE[d]														
Domestic Shipments	29.8	29.6	32.3	31.2	31.4								154.3	152.0
Export	0.7	0.8	1.2	0.9	1.0								4.6	4.4
Ending Stock	49.6	49.4	46.5	47.2	47.6								47.6	45.8
TOTAL NYLON ABOVE														
PRODUCTION	**139.2**	**135.2**	**139.7**	**141.6**	**148.6**								**704.3**	**668.7**
Domestic Shipments	125.3	129.1	134.9	128.2	136.8								654.3	610.0
Export	11.3	11.7	9.1	10.3	17.5								59.9	46.4
TOTAL SHIPMENTS	**136.6**	**140.8**	**144.0**	**138.5**	**154.3**								**714.2**	**656.4**
ENDING STOCK	**135.4**	**129.8**	**125.5**	**128.6**	**122.9**								**122.9**	**132.0**
POLYESTER														
INDUSTRIAL[a]														
Domestic Shipments-Tires	13.8	13.3	13.8	14.0	13.8								68.7	64.2
-Other	10.4	11.4	12.6	11.5	11.6								57.5	56.5
Export	2.4	2.9	3.0	2.2	2.6								13.1	12.1
Ending Stock	30.6	30.0	27.8	29.0	28.5								28.5	28.9
TEXTILE[d]														
Domestic Shipments by Denier														
40+50 (55 & Finer)	2.1	2.4	3.1	3.2	3.2								14.0	12.8
70 (56-89)	10.9	8.8	10.9	9.8	10.2								50.6	52.9
100 (90-109)	2.9	4.0	4.1	4.1	4.0								19.1	28.2
120 (110-129) & 135 (130-144)	0.9	1.5	1.4	1.0	1.0								5.8	3.6
150 (145-179)	40.9	40.0	43.6	49.2	45.6								219.3	212.2
200 (180 & Coarser)	4.3	4.6	6.1	5.8	6.1								26.9	29.0
Total Textile Domestic	62.0	61.3	69.2	73.1	70.1								335.7	338.7
Domestic Shipments also Divided as														
Textured Yarn	48.8	47.2	53.3	58.0	55.0								262.3	269.2
Flat Yarn	13.2	14.1	15.9	15.1	15.1								73.4	69.5
Export	1.3	2.7	3.1	2.6	3.5								13.2	27.1
Ending Stock	85.6	88.8	87.6	83.2	80.0								80.0	91.9
TOTAL POLYESTER ABOVE														
PRODUCTION	**95.2**	**94.2**	**98.3**	**100.2**	**97.9**								**485.8**	**511.5**
Domestic Shipments	86.2	86.0	95.6	98.6	95.5								461.9	459.4
of Which Indirect Exports	*'5.2*	*'4.9*	*5.1*	*'5.8*	*4.2*								*25.2*	*38.7*
Export	3.7	5.6	6.1	4.8	6.1								26.3	39.2
TOTAL SHIPMENTS	**89.9**	**91.6**	**101.7**	**103.4**	**101.6**								**488.2**	**498.6**
ENDING STOCK	**116.2**	**118.8**	**115.4**	**112.2**	**108.5**								**108.5**	**120.8**
OLEFIN														
PRODUCTION	**84.1**	**88.5**	**90.8**	**89.6**	**89.5**								**442.5**	**414.1**
Shipments														
Filament Yarn	17.2	20.3	19.5	19.7	19.7								96.4	82.6
Film Fiber & Other	75.1	67.3	71.3	69.2	70.1								353.0	330.0
TOTAL SHIPMENTS	**92.3**	**87.6**	**90.8**	**88.9**	**89.8**								**449.4**	**412.6**
ENDING STOCK	**54.7**	**55.6**	**55.6**	**56.3**	**56.0**								**56.0**	**66.4**
TOTAL ABOVE[c]														
PRODUCTION	**318.5**	**317.9**	**328.8**	**331.4**	**336.0**								**1632.6**	**1594.3**
SHIPMENTS	**318.8**	**320.0**	**336.5**	**330.8**	**345.7**								**1651.8**	**1567.6**
ENDING STOCK	**306.3**	**304.2**	**296.5**	**297.1**	**287.4**								**287.4**	**319.2**

See footnotes opposite.

CELLULOSIC YARN & STAPLE+TOW PRODUCTION, SHIPMENTS & STOCK

MONTHLY 1987

MILLION POUNDS

ITEM	1987												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
	YARN+MONOFILAMENTS													
CELLULOSIC YARN														
PRODUCTION	17.7	14.0	14.5	14.9	15.6								76.7	91.5
SHIPMENTS-Domestic	12.8	12.3	14.1	14.5	14.3								68.0	83.3
-Export	1.8	1.4	1.8	2.0	1.8								8.8	8.3
-TOTAL	14.6	13.7	15.9	16.5	16.1								76.8	91.6
ENDING STOCK	17.9	18.2	16.8	15.2	14.7								14.7	12.2
INCLUDES ACETATE AND RAYON YARN+MONOFILAMENT.														
	STAPLE+TOW													
RAYON														
PRODUCTION	36.0	31.5	33.8	34.1	32.8								168.2	161.4
SHIPMENTS-Domestic	31.2	27.7	32.9	31.2	29.2								152.2	154.9
-Export	2.9	2.0	3.2	2.0	2.4								12.5	10.6
-TOTAL	34.1	29.7	36.1	33.2	31.6								164.7	165.5
ENDING STOCK	24.3	26.1	23.8	24.7	25.9								25.9	18.4

ESTIMATED U.S. MILL CONSUMPTION

MILLION POUNDS

ITEM	1987												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
CELLULOSIC														
YARN	14	13	15	15									57	72
STAPLE	33	30	36	34									133	132
TOTAL CELLULOSIC	47	43	51	49									190	204
NONCELLULOSIC														
YARN	315	314	333	327									1289	1220
STAPLE	357	360	389	375									1481	1333
TOTAL NONCELLULOSIC	672	674	722	702									2770	2553
TOTAL MAN-MADE FIBERS [a]	719	717	773	751									2960	2757
COTTON	302	282	341	312									1237	1064
WOOL	15	14	16	15									60	56
TOTAL FIBER	1036	1013	1130	1078									4257	3877
% OF MILL CONSUMPTION														
MAN-MADE FIBERS	*69*	*71*	*68*	*70*									*70*	*71*
COTTON	*29*	*28*	*30*	*29*									*29*	*27*
WOOL	*2*	*1*	*2*	*1*									*1*	*2*

[a] Excludes textile glass fiber, acetate cigarette tow and Aramid.

NONCELLULOSIC STAPLE+TOW+FIBERFILL
PRODUCTION, SHIPMENTS & STOCK
MONTHLY 1987
MILLION POUNDS

ITEM	1987												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
NYLON														
PRODUCTION - TOTAL	80.6	75.7	91.1	87.7	89.8								424.9	363.4
Domestic Shipments by Denier														
Less than 10	8.9	8.5	8.4	9.3	7.3								42.4	39.3
10, Less than 15	3.0	1.9	1.7	1.6	3.4								11.6	14.4
15, Less than 20	66.2	64.3	68.0	71.2	73.6								343.3	254.2
20 & Coarser	5.0	4.5	5.8	4.9	4.8								25.0	24.3
Total Domestic Shipments	83.1	79.2	83.9	87.0	89.1								422.3	332.2
Domestic Shipments also Divided as														
Carpet	77.6	73.6	79.0	81.9	84.3								396.4	307.1
Other	5.5	5.6	4.9	5.1	4.8								25.9	25.1
Export	1.0	2.0	2.3	1.7	2.0								9.0	5.9
TOTAL SHIPMENTS	84.1	81.2	86.2	88.7	91.1								431.3	338.1
ENDING STOCK	59.3	53.8	58.7	57.7	56.4								56.4	88.0
ACRYLIC+MODACRYLIC														
PRODUCTION - TOTAL	51.2	50.4	54.1	53.5	53.8								263.0	250.3
Domestic Shipments by Denier														
Less than 4	33.1	35.2	39.1	37.4	36.0								180.8	168.1
4, Less than 10 and 10 & Coarser	10.9	10.2	10.9	10.0	8.9								50.9	52.5
Total Domestic Shipments	44.0	45.4	50.0	47.4	44.9								231.7	220.6
Export	5.2	5.3	4.2	3.8	7.4								25.9	40.7
TOTAL SHIPMENTS	49.2	50.7	54.2	51.2	52.3								257.6	261.3
ENDING STOCK	68.2	67.9	67.8	70.1	71.6								71.6	53.4
POLYESTER														
PRODUCTION - TOTAL	*198.9	*184.0	*198.1	*195.2	202.7								978.9	884.9
Domestic Shipments by Denier														
Fiberfill	27.3	29.9	31.7	27.1	27.3								143.3	118.5
Less than 1.3	*47.2	*47.2	*51.6	*50.1	50.7								246.8	202.6
1.3, Less than 2.5	60.9	62.4	*66.8	65.0	64.8								319.9	371.4
2.5, Less than 5.5	*10.3	9.9	11.3	*12.3	11.1								54.9	53.6
5.5, Less than 10	*6.6	*8.2	*6.5	*6.6	5.9								33.8	30.9
10 & Coarser	*16.2	*19.1	*21.3	*18.5	20.0								95.1	70.8
Total Domestic Shipments	*168.5	*176.7	*189.2	*179.6	179.8								893.8	847.8
Domestic Shipments also Divided as														
Carpet	*13.4	*15.9	*17.8	*16.3	17.0								80.1	58.1
Other	*155.4	*160.8	*171.4	*163.3	162.8								813.7	789.7
Export	16.3	15.5	16.4	15.5	13.6								77.3	41.7
TOTAL SHIPMENTS	*184.8	*192.2	*205.6	*195.1	193.4								971.1	889.5
ENDING STOCK	178.0	169.8	162.3	162.4	171.7								171.7	150.4
OLEFIN & VINYON [e]														
PRODUCTION	28.0	27.2	*30.3	*30.4	30.5								146.4	135.5
SHIPMENTS	28.2	27.9	*31.9	31.1	30.0								149.1	135.6
ENDING STOCK	33.3	32.6	*31.0	30.3	30.8								30.8	29.7
TOTAL ABOVE														
PRODUCTION	*358.7	*337.3	*373.6	*366.8	376.8								1813.2	1634.2
SHIPMENTS	*346.3	*352.0	*377.9	*366.1	366.8								1809.1	1624.5
ENDING STOCK	338.8	324.1	*319.8	320.5	330.5								330.5	321.5

*. Revisions in the previous month

a. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier

b. Low denier industrial is finer than 500 denier with an Instron tenacity over 5.5 grams per denier

c. Does not include saran or spandex

d. Low denier industrial nylon and polyester included with Textile

e. 1987 data excludes vinyon

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TEXTILE ORGANON

Volume 59, No. 4 ☐ April 1988

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Highlights

- U.S General Imports of Man-Made Fiber Apparel...begins on page 72.
- Imports for Consumption of Silk, Linen, Jute, Sisal and Other Fibers...see page 76.
- U.S. Domestic Consumption of Products Including Other Fibers... begins on page 74.

SHIPMENTS:

Total man-made fiber shipments in March increased 25.2 million pounds over February's level to reach 786.8 million pounds. The total shipments represent about a 3 1/3% gain over the previous month, over the previous March and for the year to date. Shipments of cellulosic fiber at 56.6 million pounds were 8.8% ahead of February's level, while shipments of noncellulosic fiber at 730.2 million pounds grew 2.9% over the previous month.

Noncellulosic yarn shipments grew 18.1 million pounds in one month to reach 361.2 million pounds. That quantity represents a gain of 5.3% for the month and is 9.5% over the previous March. The largest gainers in pounds were olefin yarn ahead 6.8 million pounds, and nylon carpet yarn ahead 4.8 million pounds.

Noncellulosic staple+tow+fiberfill shipments in March at 369.0 million pounds were ahead 2.5 million pounds or 0.7% over the previous month. Polyester staple shipments at 198.5 million pounds were down from the levels of both February and the previous March, but remained ahead 8.7 million pounds or 1.5% for the year to date.

TABLE 1:
TOTAL U.S. MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1988		% CHG	1987	% CHG	YEAR TO DATE		% CHG YTD
	MAR	FEB	2/88-3/88	MAR	3/87-3/88	1988	1987	1987-1988
CELLULOSIC								
YARN	18.1	16.1	*+12.4*	15.9	*+13.8*	50.1	44.2	*+13.3*
RAYON STAPLE	38.5	35.9	*+7.2*	36.1	*+6.6*	107.0	99.9	*+7.1*
TOTAL CELLULOSIC	**56.6**	**52.0**	***+8.8***	**52.0**	***+8.8***	**157.1**	**144.1**	***+9.0***
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	34.7	32.1	*+8.1*	30.6	*+13.4*	94.3	94.4	*-0.1*
- CARPET	85.5	80.7	*+5.9*	79.9	*+7.0*	238.8	232.6	*+2.7*
- TEXTILE [a]	34.7	31.2	*+11.2*	33.5	*+3.6*	95.9	94.4	*+1.6*
POLYESTER - INDUSTRIAL	30.4	29.3	*+3.8*	29.4	*+3.4*	86.2	83.6	*+3.1*
- TEXTILE [a]	67.7	68.4	*-1.0*	72.3	*-6.4*	199.0	199.6	*-0.3*
OLEFIN	108.2	101.4	*+6.7*	84.3	*+28.4*	306.8	264.2	*+16.1*
TOTAL YARN	**361.2**	**343.1**	***+5.3***	**330.0**	***+9.5***	**1021.0**	**968.8**	***+5.4***
STAPLE+TOW+FIBERFILL								
NYLON	84.4	81.7	*+3.3*	86.2	*-2.1*	244.1	251.5	*-2.9*
ACRYLIC+MODACRYLIC	55.4	52.8	*+4.9*	54.2	*+2.2*	156.7	154.1	*+1.7*
POLYESTER	198.5	202.4	*-1.9*	205.6	*-3.5*	591.3	582.6	*+1.5*
OLEFIN	30.7	29.6	*+3.7*	31.9	*-3.8*	89.4	88.0	*+1.6*
TOTAL STAPLE	**369.0**	**366.5**	***+0.7***	**377.9**	***-2.4***	**1081.5**	**1076.2**	***+0.5***
TOTAL NONCELLULOSIC	**730.2**	**709.6**	***+2.9***	**707.9**	***+3.2***	**2102.5**	**2045.0**	***+2.8***
TOTAL MAN-MADE FIBER	**786.8**	**761.6**	***+3.3***	**759.9**	***+3.5***	**2259.6**	**2189.1**	***+3.2***

[a] Includes low denier industrial yarn.

Textile Organon

A Monthly Review

APRIL 1988

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TEXTILE ECONOMICS BUREAU, INC.
President
Rosemarie D. Frick

Editor, Textile Organon
David S. Morey

Publishing Headquarters:
Textile Economics Bureau, Inc.
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Roseland, NJ 07068
U.S.A.
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Facsimile: (201) 228-7598

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DATAGRAM

U.S. GENERAL IMPORTS OF MAN-MADE FIBER APPAREL DECLINED 0.9% IN 1987

In 1987 the U.S. general imports of man-made fiber apparel decreased 0.9% from the 1986 amount, based on square yards equivalent. The 1987 quantity, at 3,389 million square yards equivalent, is 378 million square yards equivalent or 12.6% ahead of the 1985 level. In 1987 imports declined from the more industrialized areas such as West Europe, Japan, Hong Kong and Korea. Apparel imports increased from less developed areas such as Other Americas and smaller countries in Asia. (See Table 2)

IMPORTS OF OTHER FIBERS AND PRODUCTS INCREASED 3.6% IN 1987

Imports of other fibers such as silk, linen, jute, sisal, etc. and their semimanufactured and manufactured products increased 21.1 million pounds or 3.6% in 1987. At 603.5 million pounds, these imports are 43.7% below the level of ten years ago. Most of the decline was caused by a drop in imports of jute woven fabric, which has faced severe interfiber competition from polypropylene woven fabric. (See Table 4)

DOMESTIC CONSUMPTION, INCLUDING OTHER FIBERS, REACHED 16.9 BILLION POUNDS

Domestic Consumption (which is mill consumption of fiber plus imports of semimanufactured and manufactured products, less exports) reached 16.9 billion pounds, when other fibers are included in the total. That figure represents a gain of 8.2% in one year. Imports, which increased 12.3% in the year to reach 5.0 billion pounds, are equal to 29.8% of domestic consumption. In the previous year, imports represented 28.7% of domestic consumption. (See Table 3)

DU PONT WILL INVEST $150 MILLION IN POLYESTER PRODUCTION FACILITIES

The Du Pont company will invest $150 million over the next two years in production facilities for polyester staple and POY textured feed yarns. The projects include increased product assortment and capacity changes to increase product availability. The sites involved are Wilmington, N.C., Kinston, N.C. and Charleston, S.C. (Du Pont Company News Release)

TABLE 2:
U.S. GENERAL IMPORTS OF MAN-MADE FIBER APPAREL
MILLIONS OF SQUARE YARDS EQUIVALENT & *Percent*

COUNTRY	1985	%[b]	1986	%[a]	%[b]	1987	%[a]	[b]%
FRANCE	7	*0.2*	6	*-15.7*	*0.2*	4	*-34.0*	*0.1*
GERMANY, FED. REP. OF	4	*0.1*	5	*+27.0*	*0.1*	6	*+9.7*	*0.2*
ITALY	22	*0.7*	26	*+19.4*	*0.8*	18	*-30.4*	*0.5*
PORTUGAL	5	*0.2*	8	*+64.5*	*0.2*	8	*+2.5*	*0.2*
SPAIN	2	*0.1*	2	*-7.8*	*0.1*	1	*-53.3*	- -
TURKEY	1	- -	4	*+309.0*	*0.1*	12	*+203.4*	*0.4*
UNITED KINGDOM	7	*0.3*	8	*+12.0*	*0.2*	5	*-36.0*	*0.2*
TOTAL WEST EUROPE	**48**	***1.6***	**59**	***+23.0***	***1.7***	**54**	***-8.3***	***1.6***
HUNGARY	2	*0.1*	4	*+98.2*	*0.1*	5	*+28.6*	*0.1*
POLAND	4	*0.1*	4	*-2.6*	*0.1*	4	*+0.0*	*0.1*
ROMANIA	16	*0.5*	20	*+23.8*	*0.6*	20	*+0.3*	*0.6*
YUGOSLAVIA	5	*0.2*	10	*+125.5*	*0.3*	9	*-14.8*	*0.3*
TOTAL EAST EUROPE	**27**	***0.9***	**38**	***+42.9***	***1.1***	**38**	***-0.6***	***1.1***
BARBADOS	6	*0.2*	4	*-43.3*	*0.1*	4	*+11.8*	*0.1*
BELIZE	5	*0.2*	4	*-15.3*	*0.1*	3	*-22.1*	*0.1*
CANADA	7	*0.2*	8	*+14.8*	*0.2*	14	*+78.9*	*0.4*
COLUMBIA	6	*0.2*	9	*+53.2*	*0.3*	8	*-5.9*	*0.3*
COSTA RICA	23	*0.8*	28	*+19.4*	*0.8*	30	*+6.7*	*0.9*
DOMINICAN REPUBLIC	57	*1.9*	79	*+38.7*	*2.3*	90	*+13.4*	*2.7*
EL SALVADOR	2	- -	3	*+20.5*	*0.1*	6	*+104.5*	*0.2*
HAITI	49	*1.6*	61	*+23.2*	*1.8*	69	*-56.7*	*2.0*
HONDURAS	5	*0.2*	5	*+8.2*	*0.2*	9	*+67.4*	*0.3*
JAMAICA	8	*0.3*	18	*+120.3*	*0.5*	28	*+57.3*	*0.8*
MEXICO	81	*2.7*	75	*-6.7*	*2.2*	91	*+21.3*	*2.7*
PANAMA	3	*0.1*	7	*+159.5*	*0.2*	8	*+12.8*	*0.2*
ST. CHRISTOPHER & ANGUILLA	3	*0.1*	5	*+70.6*	*0.1*	5	*+2.5*	*0.1*
ST. LUCIA	6	*0.2*	2	*-57.2*	*0.1*	4	*+77.9*	*0.1*
OTHER	21	*0.7*	12	*-43.7*	*0.3*	9	*-24.9*	*0.3*
TOTAL OTHER AMERICAS	**282**	***9.4***	**320**	***+13.3***	***9.3***	**378**	***+18.3***	***11.2***

Continued on oppsite page.

TABLE 2:
U.S. GENERAL IMPORTS OF MAN-MADE FIBER APPAREL MILLIONS OF SQUARE YARDS EQUIVALENT & *Percent (CONTINUED)*

COUNTRY	1985	%[b]	1986	%[a]	%[b]	1987	%[a]	%[b]
JAPAN	**62**	*2.0*	**57**	*-7.5*	*1.7*	**41**	*-28.3*	*1.2*
CHINA, P.R.C.	**240**	*8.0*	**410**	*+71.3*	*12.0*	**417**	*+1.7*	*12.3*
BANGLADESH	25	*0.8*	52	*+104.6*	*1.5*	68	*+30.4*	*2.0*
HONG KONG	298	*9.9*	342	*+14.6*	*10.0*	312	*-8.6*	*9.2*
INDIA	16	*0.5*	26	*+65.6*	*0.8*	35	*+33.6*	*1.0*
INDONESIA	93	*3.1*	103	*+10.9*	*3.0*	111	*+7.7*	*3.3*
KOREA, REP. OF	580	*19.3*	599	*+3.2*	*17.5*	586	*-2.1*	*17.3*
MACAO	29	*0.9*	36	*+26.8*	*1.0*	37	*+1.5*	*1.1*
MALAYSIA	60	*2.0*	67	*+11.1*	*2.0*	58	*-13.5*	*1.7*
PAKISTAN	12	*0.4*	18	*+45.4*	*0.5*	25	*+36.5*	*0.7*
PHILIPPINES	180	*6.0*	193	*+7.3*	*5.6*	207	*+7.3*	*6.1*
SINGAPORE	111	*3.7*	132	*+19.5*	*3.9*	119	*-10.5*	*3.5*
SRI LANKA	41	*1.4*	57	*+38.0*	*1.7*	67	*+18.0*	*2.0*
TAIWAN	804	*26.7*	834	*+3.7*	*24.4*	769	*-7.7*	*22.7*
THAILAND	88	*2.9*	51	*-41.7*	*1.5*	41	*-20.0*	*1.2*
TOTAL OTHER ASIA	**2337**	*77.6*	**2510**	*+7.4*	*73.4*	**2435**	*-3.0*	*71.8*
ISRAEL	10	*0.3*	13	*+25.7*	*0.4*	10	*-24.1*	*0.3*
MAURITIUS	2	*0.1*	10	*+427.4*	*0.3*	16	*+55.2*	*0.5*
SOUTH AFRICA	3	*0.1*	2	*-40.1*	*0.1*	+	*-95.6*	*0.0*
MIDDLE EAST, AFRICA & OTHER	**15**	*0.5*	**25**	*+62.3*	*0.8*	**26**	*+2.9*	*0.8*
GRAND TOTAL	**3011**	*100.0*	**3419**	*+13.6*	*100.0*	**3389**	*-0.9*	*100.0*

Source: U.S. Department of Commerce - T Q 2310.

+ Less than 1 million pounds. - - Less than 0.1%.

a. Percent change from previous year.

b. Percent of total apparel imports.

TABLE 3:
U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF PRODUCTS
MILLION POUNDS & *PERCENT*

	MAN-MADE FIBER MILL CONSUMPTION=PRODUCERS' SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)																					
	CELLULOSIC FIBER											NONCELLULOSIC FIBER										
	YARN+MONOFIL			STAPLE+TOW			WASTE					YARN+MONOFIL			STAPLE+TOW			WASTE				
YEAR	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)
1973	589.9	18.1	608.0	734.5	47.4	781.9	36.8	- -	37.5	-0.7	1389.2	3273.7	140.1	3413.8	2848.4	112.8	2961.2	274.8	47.8	98.6	224.0	6599.0
1974	473.4	9.2	482.6	589.2	38.7	627.9	29.9	0.2	33.0	-2.9	1107.6	3142.3	92.1	3234.4	2450.5	73.2	2523.7	246.4	46.3	91.2	201.5	5959.6
1975	368.6	9.2	377.8	385.4	37.9	423.3	13.2	0.1	12.4	0.9	802.0	3214.8	53.8	3268.6	2553.5	55.2	2608.7	228.7	25.0	50.0	203.7	6081.0
1976	314.5	25.1	339.6	472.0	43.2	515.2	14.7	0.4	14.6	0.5	855.3	3147.2	64.0	3211.2	3018.5	67.3	3085.8	262.3	30.5	70.2	222.6	6519.6
1977	327.5	23.5	351.0	452.9	57.8	510.7	18.5	0.6	12.6	6.5	868.2	3461.4	92.5	3553.9	3373.1	52.9	3426.0	291.0	23.2	66.1	248.1	7228.0
1978	337.6	25.7	363.3	466.2	41.1	507.3	15.7	0.4	7.0	9.1	879.7	3641.9	52.2	3694.1	3505.5	60.5	3566.0	263.9	26.0	88.7	201.2	7461.3
1979	343.4	13.3	356.7	449.4	16.5	465.9	17.2	0.8	9.6	8.4	831.0	3797.6	20.0	3817.6	3713.5	39.3	3752.8	238.6	21.1	137.7	122.0	7692.4
1980	316.7	8.3	325.0	397.7	10.3	408.0	13.5	0.3	6.1	7.7	740.7	3532.0	19.6	3551.6	3482.5	35.6	3518.1	170.2	21.5	116.4	75.3	7145.0
1981	272.9	10.7	283.6	400.9	16.8	417.7	15.3	0.5	2.8	13.0	714.3	3483.1	18.9	3502.0	3327.9	60.5	3388.4	174.2	49.9	107.3	116.8	7007.2
1982	199.1	7.0	206.1	294.7	13.4	308.1	10.7	0.4	3.2	7.9	522.1	2893.9	23.8	2917.7	3037.6	51.2	3088.8	173.2	37.8	86.1	124.9	6131.4
1983	233.1	8.7	241.8	334.9	13.6	348.5	9.4	0.3	1.4	8.3	598.6	3385.4	48.3	3433.7	3671.9	101.4	3773.3	214.1	46.1	71.3	188.9	7395.9
1984	218.3	10.0	228.3	332.3	17.0	349.3	11.4	0.5	1.6	10.3	587.9	3308.6	90.0	3398.6	3494.2	131.1	3625.3	216.9	50.5	89.7	177.7	7201.6
1985	187.1	13.9	201.0	324.2	12.3	336.5	8.8	0.5	1.2	8.1	545.6	3559.2	104.6	3663.8	3441.4	159.4	3600.8	260.2	40.7	75.6	225.3	7489.9
1986	192.1	17.0	209.1	373.5	17.4	390.9	10.4	0.1	2.2	8.3	608.3	3621.2	126.1	3747.3	3737.4	182.8	3920.2	261.5	40.3	123.7	178.1	7845.6
1987	166.8	12.8	179.6	383.6	13.8	397.4	9.6	0.1	1.1	8.6	585.6	3803.2	123.9	3927.1	3987.4	189.0	4176.4	221.3	47.0	113.5	154.8	8258.3

Continued on opposite page

TABLE 3:
U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF FIBER & PRODUCTS INCLUDING OTHER FIBERS *(CONTINUED)*
MILLION POUNDS & *PERCENT*

	MILL CONSUMPTION OF 4 FIBERS										DOMESTIC CONSUMPTION OF 4 FIBERS (CONS)=MILL CONSUMPTION+IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS												
	MAN-MADE FIBER		COTTON		WOOL		OTHER FIBERS		TOTAL		MAN-MADE FIBER			COTTON			WOOL			OTHER FIBERS	TOTAL		
YEAR	LB	%	LB	%	LB	%	LB	%	LB	%	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS	IMP	IMP	EXP	CONS
	(23)		(24)		(25)		(26)		(27)		(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1973	7988.2	*66.4*	3643.3	*30.3*	182.1	*1.5*	216.1	*1.8*	12029.7	*100.0*	465.3	288.2	8165.3	563.5	325.2	3881.6	61.3	30.8	212.6	1468.0	2558.1	644.2	13727.5
1974	7067.2	*66.1*	3306.1	*30.9*	116.5	*1.1*	200.8	*1.9*	10690.6	*100.0*	371.3	390.7	7047.8	502.7	392.5	3416.3	53.3	23.0	146.8	1447.3	2374.6	806.2	12058.2
1975	6883.0	*67.4*	3068.7	*30.0*	132.0	*1.3*	133.4	*1.3*	10217.1	*100.0*	400.4	322.4	6961.0	501.3	353.7	3216.3	48.6	19.2	161.4	904.6	1854.9	695.3	11243.3
1976	7374.9	*66.7*	3389.0	*30.6*	145.9	*1.3*	152.1	*1.4*	11061.9	*100.0*	479.5	352.2	7502.2	708.6	413.2	3684.4	66.7	13.9	198.7	1117.0	2371.8	779.3	12502.3
1977	8096.2	*70.1*	3169.8	*27.5*	133.9	*1.2*	144.6	*1.2*	11544.5	*100.0*	530.7	367.7	8259.2	669.4	369.5	3469.7	85.9	11.5	208.3	1071.4	2357.4	748.7	13008.6
1978	8341.0	*71.4*	3040.4	*26.0*	141.6	*1.2*	168.4	*1.4*	11691.4	*100.0*	642.6	441.7	8541.9	845.4	355.7	3530.1	92.2	11.6	222.2	1086.1	2666.3	809.0	13380.3
1979	8523.4	*71.7*	3066.4	*25.8*	134.4	*1.1*	167.9	*1.4*	11892.1	*100.0*	525.0	596.6	8451.8	746.1	478.0	3334.5	80.6	14.0	201.0	1021.9	2373.6	1088.6	13009.2
1980	7885.7	*70.3*	3064.4	*27.4*	137.8	*1.2*	127.1	*1.1*	11215.0	*100.0*	540.6	771.5	7654.8	810.9	523.1	3352.2	85.1	23.8	199.1	807.0	2243.6	1318.4	12013.1
1981	7721.5	*71.9*	2730.8	*25.5*	152.7	*1.4*	129.1	*1.2*	10734.1	*100.0*	639.1	637.7	7722.9	961.9	367.3	3325.4	93.1	11.8	234.0	794.7	2488.8	1016.8	12077.0
1982	6653.5	*70.8*	2478.9	*26.4*	129.5	*1.4*	130.0	*1.4*	9391.9	*100.0*	697.9	438.5	6912.9	897.2	253.4	3122.7	100.1	10.8	218.8	648.4	2343.6	702.7	10902.8
1983	7994.5	*72.3*	2795.7	*25.2*	162.5	*1.5*	106.5	*1.0*	11059.2	*100.0*	1069.4	460.7	8603.2	1135.4	219.6	3711.5	149.8	11.6	300.7	690.3	3044.9	691.9	13305.7
1984	7789.5	*72.7*	2668.2	*24.9*	163.2	*1.5*	95.7	*0.9*	10716.6	*100.0*	1342.6	487.9	8644.2	1465.6	204.6	3929.2	210.2	12.0	361.4	680.1	3698.5	704.5	13614.9
1985	8035.5	*72.6*	2796.0	*25.3*	134.7	*1.2*	103.6	*0.9*	11069.8	*100.0*	1491.0	499.1	9027.4	1629.2	213.2	4212.0	264.8	17.8	381.7	646.9	4031.9	730.1	14268.0
1986	8453.9	*70.3*	3301.7	*27.4*	164.5	*1.4*	103.3	*0.9*	12023.4	*100.0*	1703.0	519.3	9637.6	1910.5	274.8	4937.4	275.6	16.0	424.1	582.4	4471.5	810.1	15581.5
1987	8843.9	*68.8*	3742.9	*29.1*	167.6	*1.3*	104.8	*0.8*	12859.2	*100.0*	1805.4	591.9	10057.4	2335.6	298.0	5780.5	276.1	23.4	420.3	603.5	5020.6	913.3	16861.7

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the March 1985 issue.

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ( ):

All Census import and export commodity numbers are as of January 1987.

1 & 4: March issue on page 50.
12 & 15: March issue on page 51.
7 & 18: March issue on page 55.
2: Import Classes 309.0310, .0610, .2000, 310.0106, .0130, .0206, .0230 & .06[illegible]0.
5: Import Classes 309.3010, .3310, .4320 & .4325.
8: Import Classes 309.6615 & .7510.
9: Export Class 309.7400.
13: Import Classes 309.0200, .0330, .0340, .0365, .0500, .0630, .0640, .0665, .2100, .2500, 310.0107, .0108, .0110, .0114, .0149, .0150, .0170, .0207, .0208, .0210, .0214, .0249, .0250, .0270, .0550, .0630 & .0650.
16: Import Classes 309.3030, .3040, .3050, .3065, .3200, .3340, .3350, .3365, .4331, .4336, .4341, .4351, .4361, .4366, .4371 & .4390.
19: Import Classes 309.6625, .6630, .6645, .6660, .7000 & .7525 - .7555.
20: Export Classes 309.7620, .7630, .7640 & .7660.
24: U.S. Census Bureau Report M22P.
25: U.S. Census Bureau Report M22D.
26: This issue page 76.
28, 29, 31, 32, 34 & 35: Cotton and Wool Outlook & Situation (U.S. Department of Agriculture).
37: This issue page 76.

CERTAIN TOTALS IN THE TABLES:

(Obvious totals such as Columns 1+2=3, 4+5=6, etc. are not described here.)

10: Columns 7+8-9
21: Columns 18+19-20
23: Columns 11+22
30: Columns 23+28-29
33: Columns 24+31-32
36: Columns 25+34-35
40: Columns 27+38-39-26

TABLE 4:
IMPORTS FOR CONSUMPTION
MILLION POUNDS

YEAR	SILK				LINEN				JUTE				SISAL & OTHERS				TOTAL IMP TO THE LEFT
	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	RAW MATL	SEMI-MFRD	FIN-ISHED	TOTAL	
1973	3.4	2.2	0.8	6.4	2.4	7.9	54.3	64.6	69.2	865.7	10.5	945.4	141.1	7.4	303.1	451.6	1468.0
1974	2.6	1.0	0.6	4.2	2.2	6.8	34.3	43.3	62.4	798.4	9.7	870.5	133.6	8.9	386.8	529.3	1447.3
1975	1.0	0.9	0.7	2.6	0.8	4.3	28.4	33.5	46.9	488.8	20.8	556.5	84.7	8.4	218.9	312.0	904.6
1976	2.8	1.4	1.3	5.5	0.9	4.8	34.3	40.0	46.2	583.3	60.9	690.4	102.2	7.6	271.3	381.1	1117.0
1977	1.6	2.0	1.8	5.4	0.4	3.4	35.2	39.0	26.7	597.9	29.2	653.8	115.9	3.7	253.6	373.2	1071.4
1978	2.0	3.6	3.5	9.1	1.0	5.2	36.2	42.4	37.6	588.6	38.2	664.4	127.8	8.4	234.0	370.2	1086.1
1979	1.5	2.8	3.9	8.2	0.9	5.1	30.4	36.4	48.5	488.8	13.5	550.8	117.0	4.7	304.8	426.5	1021.9
1980	1.0	3.1	4.4	8.5	0.6	2.9	27.7	31.2	20.9	380.4	13.6	414.9	104.6	5.6	242.2	352.4	807.0
1981	1.9	4.6	1.2	7.7	2.9	2.2	22.2	27.3	34.5	370.4	8.4	413.3	89.8	31.8	224.8	346.4	794.7
1982	2.0	4.2	1.2	7.4	7.8	1.5	20.0	29.3	35.2	268.5	5.8	309.5	85.0	30.0	187.2	302.2	648.4
1983	1.6	6.1	1.4	9.1	3.8	2.3	a	6.1	30.4	297.8	6.6	334.8	70.7	29.5	240.1	340.3	690.3
1984	1.4	7.0	2.3	10.7	4.8	3.2	a	8.0	20.0	261.8	4.8	286.6	69.5	41.4	263.9	374.8	680.1
1985	1.5	6.4	2.3	10.2	3.0	1.3	a	4.3	32.6	201.2	7.2	241.0	66.5	33.8	291.1	391.4	646.9
1986	1.0	6.9	2.4	10.3	3.0	1.7	a	4.7	30.4	230.5	6.9	267.8	68.9	27.1	203.6	299.6	582.4
1987[b]	1.4	8.2	1.6	11.2	2.7	1.5	a	4.2	31.5	247.4	6.4	285.3	69.2	27.1	206.5	302.8	603.5

SOURCE: U.S. Dept. of Commerce, Office of Textiles & Apparel.

a. Due to changes in the tariff classifications, Linen Finished Goods are included in Sisal & Others Finished Goods.

b. These figures are preliminary for 1987.

Because these fibers are not grown in the United States (flax production is nominal), imports are taken as the total available supply.

SILK: **Raw material** means raw silk plus silk waste & noils. **Semimanufactured** means spun & thrown silk yarns and silk fabrics. **Finished goods** are mainly scarves, handkerchiefs, blouses and laces.

LINEN. **Raw material** includes hackled and unhackled flax, noils, tow & straw. **Semimanufactured** includes linen yarn, sliver & roving. **Finished goods** are mainly fabrics, handkerchiefs, toweling, napery & dresses.

JUTE: **Raw material** includes unmanufactured jute and jute butts. **Semimanufactured** means yarn & roving, new & waste bagging and burlap in the piece. **Finished goods** are mainly cordage, bags and webbing.

SISAL & OTHERS: Includes all of the *hard or leaf fibers* (e.g., abaca or manila hemp, coir, crin, henequen, istle or tampico, sisal, etc.) **Imported** into the United States plus the *soft or bast fibers* (e.g., hemp, ramie, sunn, etc.) except flax or linen and jute, which are tabulated separately here. **Semimanufactured** is chiefly coir yarns & roving. **Finished goods** are mainly cordage and twine.

TABLE 5:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEMS & COUNTRY	1988												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	0											0	138
BRAZIL	54	0											54	115
CANADA	426	481											907	793
GERMANY, FED. REP.	353	635											988	671
JAPAN	277	131											408	219
MEXICO	62	53											115	18
NETHERLANDS	190	229											419	144
ALL OTHER COUNTRIES [a]	11	1											12	4
TOTAL CELLULOSIC YARN	**1373**	**1530**											**2903**	**2102**
CELLULOSIC STAPLE+TOW														
CANADA	1086	774											1860	1937
ITALY	34	73											107	88
JAPAN	99	0											99	227
SWEDEN	0	41											41	43
UNITED KINGDOM	57	0											57	51
ALL OTHER COUNTRIES [b]	28	0											28	63
TOTAL CELLULOSIC STAPLE+TOW	**1304**	**888**											**2192**	**2409**
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436	1117											2553	2785
CANADA	1448	1872											3320	2866
CHINA, PRC	0	10											10	0
COSTA RICA	606	570											1176	1244
DENMARK	0	0											0	93
FRANCE	767	588											1355	1371
GERMANY, FED. REP.	1074	1355											2429	4141
IRELAND	37	34											71	139
ISRAEL	388	309											697	395
ITALY	761	811											1572	2068
JAPAN	648	212											860	1562
KOREA, REP. OF	3	23											26	62
MEXICO	1428	2004											3432	3204
NETHERLANDS	49	42											91	277
SINGAPORE	81	41											122	73
SWITZERLAND	32	0											32	255
TAIWAN	12	26											38	53
UNITED KINGDOM	676	753											1429	1331
ALL OTHER COUNTRIES [c]	172	234											406	293
TOTAL NONCELLULOSIC YARN	**9618**	**10001**											**19619**	**22212**
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601	727											1328	79
BELGIUM	35	0											35	57
BRAZIL	0	0											0	438
CANADA	2003	2183											4186	6196
FRANCE	934	799											1733	1543
GERMANY, FED. REP.	2738	3040											5778	4945
IRELAND	80	123											203	109
ISRAEL	8	0											8	62
ITALY	130	362											492	3953
JAPAN	1963	2057											4020	3431
KOREA, REP. OF	1355	1516											2871	1882
MALAYSIA	0	95											95	143
MEXICO	303	549											852	2818
ROMANIA	448	0											448	430
SWITZERLAND	102	21											123	223
TAIWAN	1986	1109											3095	3470
UNITED KINGDOM	1604	1503											3107	2057
ALL OTHER COUNTRIES [d]	52	30											82	37
TOTAL NONCELLULOSIC STAPLE+TOW	**14342**	**14114**											**28456**	**31873**

+ Less than 1 thousand pounds.

a. Korea, Rep. of 11, Taiwan 1, France.

b. Australia 25, Germany, Fed. Rep. of 2, Belgium 1.

c. Spain 131, Romania 70, Chile 66, Argentina 42, Australia 37, Sweden 33, Turkey 18, Brazil 7, Austria 1, Vatican City 1, Greece, India.

d. Australia 38, Netherlands 20, Hong Kong 19, Egypt 3, Portugal 1, Spain 1, Philippines.

TABLE 6:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0	+											+	168
OTHER	310.0130 & .0230[a]	1362	1468											2830	1928
MONOFILAMENTS	309.0310 & .0610	0	+											+	5
STRIPS, $1/LB & UNDER	309.2000*	11	62											73	1
SUBTOTAL ABOVE		**1373**	**1530**											**2903**	**2102**
STAPLE	309.4320 & .4325	1182	890											2072	2269
GROUPED FILAMENTS	309.3010 & .3310	122	0											122	140
SUBTOTAL ABOVE		**1304**	**890**											**2194**	**2409**
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	0	+											+	0
NONCELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341	297											638	305
DENIER AND OVER	310.0108 & .0208	1503	1643											3146	5525
- POLYESTER	310.0110 & .0210	989	1368											2357	3243
- OTHER	310.0114 & .0214	2158	1830											3988	3886
OTHER - NYLON	310.0149 & .0249	1154	1567											2721	4129
- POLYESTER	310.0150 & .0250	2153	1631											3784	3245
- OTHER	310.0170 & .0270[b]	762	1085											1847	931
MONOFILAMENTS	309.0200 & .0330[c]	381	384											765	553
STRIPS, OVER $1/LB	309.2100 & .2500*	177	196											373	395
SUBTOTAL ABOVE		**9618**	**10001**											**19619**	**22212**
STAPLE - NYLON	309.4331 & .4351	1696	1306											3002	9452
- POLYESTER	309.4336 & .4361	4653	5670											10323	10365
- ACRYLIC	309.4366	1214	953											2167	2055
- OLEFIN	309.4371	83	104											187	155
- OTHER	309.4341 & .4390	1350	1625											2975	1383
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713	2877											6590	5535
POLYESTER	309.3040 & .3340	441	215											656	646
ACRYLIC	309.3050 & .3350	1086	1331											2417	2005
OTHER	309.3065 & .3365	106	33											139	277
SUBTOTAL ABOVE		**14342**	**14114**											**28456**	**31873**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940	1991											4931	4461
- POLYESTER	309.6630	550	487											1037	1900
- ACRYLIC	309.6645	0	0											0	73
- OTHER	309.6660	221	273											494	933
NOILS & GARNETTED FIBERS	309.7000*	80	0											80	0
OTHER WASTE, ADVANCED	309.7525 - .7555	596	596											1192	195
SUBTOTAL ABOVE		**4387**	**3347**											**7734**	**7562**
TOTAL MAN-MADE ABOVE		**31024**	**29882**											**60906**	**66158**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0											0	0
- NONCELLULOSIC	310.1015[d] & .1205[e]	340	110											450	479
OTHER - CELLULOSIC	310.1030 & .1535[f]	15	21											36	93
- NONCELLULOSIC	310.1050 & .1070[g]	276	262											538	675
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	62	95											157	263
- OTHER	310.4015 & .4027[i]	2503	1471											3974	6339
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2122	1933											4055	3166
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	607	197											804	1493
SLIVER, TOPS & ROVING	309.9000	271	287											558	662
TEXTILE GLASS FIBER	309.2800 & .2900[k]	2526	2716											5242	3299
GRAND TOTAL ABOVE		**39746**	**36974**											**76720**	**82627**

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

+ Less than 1 thousand pounds.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 7:
U.S. EXPORTS OF MAN-MADE FIBER
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
FILAMENT YARN [a]															
TEXTURED	310.0004	27	2											29	143
OTHER [b]	310.0026	683	991											1674	840
MONOFILAMENTS	309.0110	89	36											125	0
STRIPS	309.2210	0	23											23	2
SUBTOTAL ABOVE		**799**	**1052**											**1851**	**985**
STAPLE+TOW-RAYON	309.4222	1019	1907											2926	5662
STAPLE-ACETATE	309.4219	89	66											155	145
SUBTOTAL ABOVE		**1108**	**1973**											**3081**	**5807**
WASTE, ADVANCED&NOT ADVANCED	309.7400	**143**	**251**											**394**	**400**
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651	4775											8426	5119
- HIGH TENACITY [c]	310.0027	8372	8470											16842	13667
- OTHER	310.0029	786	1111											1897	1320
POLYESTER - TEXTURED	310.0010	1739	2796											4535	5100
- HIGH TENACITY [c]	310.0032	1421	1817											3238	3604
- OTHER [d]	310.0034	207	225											432	393
OTHER - TEXTURED	310.0014	1067	1904											2971	2439
- OLEFIN	310.0040	83	626											709	109
- OTHER	310.0044	360	729											1089	966
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	658	728											1386	1103
POLYESTER	309.0140	1641	1789											3430	845
OTHER	309.0170	680	901											1581	970
STRIPS	309.2220 & .2270	415	192											607	683
SUBTOTAL ABOVE		**21080**	**26063**											**47143**	**36318**
STAPLE - NYLON	309.4240	2423	1511											3934	3817
- POLYESTER	309.4242	13519	7586											21105	35838
- ACRYLIC	309.4245	17224	11389											28613	8147
- OLEFIN	309.4246	1488	1604											3092	3909
- OTHER	309.4247	1228	1696											2924	4198
GROUPED FILAMENTS															
NYLON	309.3220	693	497											1190	1020
POLYESTER [d]	309.3240	2108	1330											3438	3773
ACRYLIC	309.3250 & .3255	4966	3683											8649	3860
SUBTOTAL ABOVE		**43649**	**29296**											**72945**	**64562**
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	685	1210											1895	2164
- POLYESTER	309.7630	3959	4435											8394	7479
- ACRYLIC	309.7640	312	1219											1531	2448
- OTHER	309.7660	3765	3582											7347	5633
SUBTOTAL ABOVE		**8721**	**10446**											**19167**	**17724**
TOTAL MAN-MADE ABOVE		**75500**	**69081**											**144581**	**125796**
TEXTILE GLASS FIBER	309.2700 & .9700	8813	9352											18165	12577
GRAND TOTAL ABOVE		**84313**	**78433**											**162746**	**138373**

SOURCE: U.S. Census Bureau Report EM522.

- + Less than 1 thousand pounds.
- a. Includes thrown, singles and plied yarn.
- b. Includes rayon tire cord and cord fabric.
- c. Includes noncellulosic tire cord and cord fabric.
- d. Includes zero twist yarns.

CORRECTION: In February, 1988 Textile Organon, page 28, Table 5 "SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORGIN" the 1987 Acrylic Staple figures for Korea and Japan are reversed. The correct quantities are:

Korea, Rep. of	177
Total, Other Asia	222
Japan	8976

TABLE 8:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1988												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
MAN-MADE FIBER TOTAL SHIPMENTS[b,c]														
CELLULOSIC														
YARN	15.9	16.1	18.1										50.1	44.2
RAYON STAPLE	32.6	35.9	38.5										107.0	99.9
TOTAL CELLULOSIC	**48.5**	**52.0**	**56.6**										**157.1**	**144.1**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5	32.1	34.7										94.3	94.4
- CARPET	72.6	80.7	85.5										238.8	232.6
- TEXTILE[f]	30.0	31.2	34.7										95.9	94.4
POLYESTER - INDUSTRIAL[d]	26.5	29.3	30.4										86.2	83.6
- TEXTILE[f]	62.9	68.4	67.7										199.0	199.6
OLEFIN[e]	97.2	101.4	108.2										306.8	264.2
TOTAL YARN	**316.7**	**343.1**	**361.2**										**1021.0**	**968.8**
STAPLE+TOW+FIBERFILL														
NYLON	78.0	81.7	84.4										244.1	251.5
ACRYLIC+MODACRYLIC	48.5	52.8	55.4										156.7	154.1
POLYESTER	190.4	202.4	198.5										591.3	582.6
OLEFIN	29.1	29.6	30.7										89.4	88.0
TOTAL STAPLE	**346.0**	**366.5**	**369.0**										**1081.5**	**1076.2**
TOTAL NONCELLULOSIC	**622.7**	**709.6**	**730.2**										**2102.5**	**2045.0**
TOTAL MAN-MADE FIBER	**711.2**	**761.6**	**786.8**										**2259.6**	**2189.1**
MAN-MADE FIBER END-OF-MONTH STOCK														
CELLULOSIC														
YARN	12.3	13.3	13.2										13.2	16.8
RAYON STAPLE	23.5	22.5	20.3										20.3	23.8
TOTAL CELLULOSIC	**35.8**	**35.8**	**33.5**										**33.5**	**40.6**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6	25.7	23.6										23.6	26.7
- CARPET	72.0	66.5	67.0										67.0	52.3
- TEXTILE[f]	51.8	50.1	47.0										47.0	46.5
POLYESTER - INDUSTRIAL[d]	29.8	29.2	28.8										28.8	27.8
- TEXTILE[f]	82.5	81.5	79.5										79.5	87.6
OLEFIN[e]	54.4	55.0	53.7										53.7	54.5
TOTAL YARN	**317.1**	**308.0**	**299.6**										**299.6**	**295.4**
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7	57.5										57.5	58.7
ACRYLIC+MODACRYLIC	62.4	58.8	55.4										55.4	67.8
POLYESTER	173.7	168.3	157.8										157.8	162.3
OLEFIN	32.5	33.7	35.0										35.0	31.0
TOTAL STAPLE	**332.0**	**325.5**	**305.7**										**305.7**	**319.8**
TOTAL NONCELLULOSIC	**649.1**	**633.5**	**605.3**										**605.3**	**615.2**
TOTAL MAN-MADE FIBER	**684.9**	**669.3**	**638.8**										**638.8**	**655.8**
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	12.9												12.9	13.8
CARPET CLASS WOOL	1.4												1.4	0.8
TOTAL RAW WOOL	14.3												14.3	14.6
RAW COTTON	296.3												296.3	302.3

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

6/10/88 C8850-1

TEXTILE ORGANON

Volume 59, No. 5 ☐ May 1988

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Highlights

- 1987 Per Capita Consumption Review... begins on page 83.
- May 1988 Capacity Survey Analysis... begins on page 88.
- Quarterly Man-Made Fiber Data...begin on page 94.

SHIPMENTS:

In April, total U.S. man-made fiber shipments were 761.5 million pounds. That quantity represents a decline of 17.8 million pounds or 2.3% from March, but a gain of 14.9 million pounds or 2.0% over the previous April.

Shipments of polyester industrial and textile yarn and polyester staple were all above their March levels, for a total polyester gain of 19.5 million pounds. However, polyester textile yarn shipments are below the level of the previous April and for the year to date.

Contributing to the decline in total shipments since March were a drop of 12.4 million pounds for nylon staple, of 10.0 million pounds for acrylic+modacrylic and 4.5 million pounds for nylon carpet yarn.

Total shipments are ahead 2.7% for the year to date, with gains for cellulosic fiber and noncellulosic yarn. Noncellulosic staple shipments are behind for the year to date.

TABLE 1:
TOTAL U.S. MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1988 APR	1988 MAR	% CHG 3/88-4/88	1987 APR	% CHG 4/87-4/88	YEAR TO DATE 1988	YEAR TO DATE 1987	% CHG YTD 1987-1988
CELLULOSIC								
YARN	19.4	18.1	*+7.2*	16.5	*+17.6*	69.5	60.7	*+14.5*
RAYON STAPLE	35.5	38.5	*-7.8*	33.2	*+6.9*	142.5	133.1	*+7.1*
TOTAL CELLULOSIC	**54.9**	**56.6**	***-3.0***	**49.7**	***+10.5***	**212.0**	**193.8**	***+9.4***
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	32.2	34.8	*-7.5*	29.5	*+9.2*	126.6	123.9	*+2.2*
- CARPET	80.1	84.6	*-5.3*	76.9	*+4.2*	318.0	309.5	*+2.7*
- TEXTILE [a]	31.7	34.5	*-8.1*	32.1	*-1.2*	127.4	126.5	*+0.7*
POLYESTER - INDUSTRIAL	31.3	30.7	*+2.0*	27.7	*+13.0*	117.8	111.3	*+5.8*
- TEXTILE [a]	73.0	67.7	*+7.8*	75.7	*-3.6*	272.0	275.3	*-1.2*
OLEFIN	100.0	102.4	*-2.3*	88.9	*+12.5*	401.0	353.1	*+13.6*
TOTAL YARN	**348.3**	**354.7**	***-1.8***	**330.8**	***+5.3***	**1362.8**	**1299.6**	***+4.9***
STAPLE+TOW+FIBERFILL								
NYLON	71.0	83.4	*-14.9*	88.7	*-20.0*	314.1	340.3	*-7.7*
ACRYLIC+MODACRYLIC	45.4	55.4	*-18.1*	51.2	*-11.3*	202.1	205.3	*-1.6*
POLYESTER	212.1	198.5	*+6.9*	195.1	*+8.7*	803.4	777.7	*+3.3*
OLEFIN	29.8	30.7	*-2.9*	31.1	*-4.2*	119.2	119.1	*+0.1*
TOTAL STAPLE	**358.3**	**368.0**	***-2.6***	**366.1**	***-2.1***	**1438.8**	**1442.4**	***-0.2***
TOTAL NONCELLULOSIC	**706.6**	**722.7**	***-2.2***	**696.9**	***+1.4***	**2801.6**	**2742.0**	***+2.2***
TOTAL MAN-MADE FIBER	**761.5**	**779.3**	***-2.3***	**746.6**	***+2.0***	**3013.6**	**2935.8**	***+2.7***

a. Includes low denier industrial yarn.

Textile Organon

A Monthly Review

MAY 1988

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TEXTILE ECONOMICS BUREAU, INC.
President
Rosemarie D. Frick

Editor, Textile Organon
David S. Morey

Publishing Headquarters:
Textile Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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1987 PER CAPITA CONSUMPTION REVIEW

Per capita consumption of all fibers grew to 69.1 pounds in 1987, a gain of 7.1% over the level of the previous year. In five years since the recession year of 1982, per capita consumption has grown 47.6%.

In one year the average consumption per person of man-made fiber increased 1.3 pounds to reach 41.2 pounds. Consumption of cotton rose 3.3 pounds to total 23.7 pounds per person. Wool consumption fell 0.1 pounds per person to 1.7 pounds, while per capita consumption of other fibers gained 0.1 pounds to reach 2.5 pounds. (See Table 4)

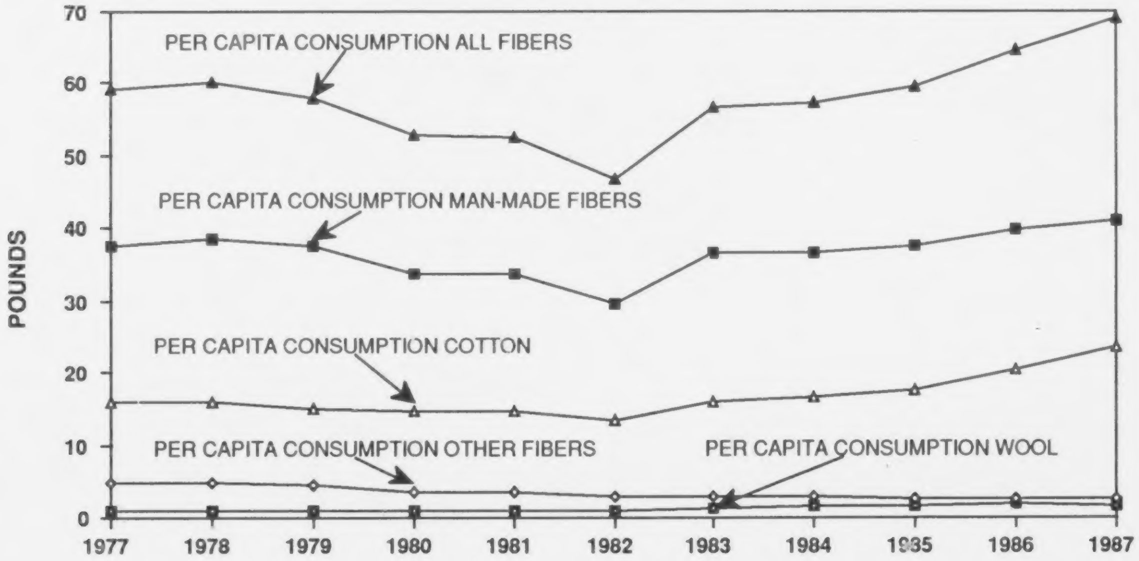
In the ten years since 1977, the U.S. population has grown 10.8%. At the same time, the per capita GNP has increased 16.6% (in constant 1982 dollars), per capita consumption of all fibers has grown 16.9% and per capita consumption of man-made fiber has increased 9.9%. (See Table 6)

TABLE & GRAPH SUMMARY

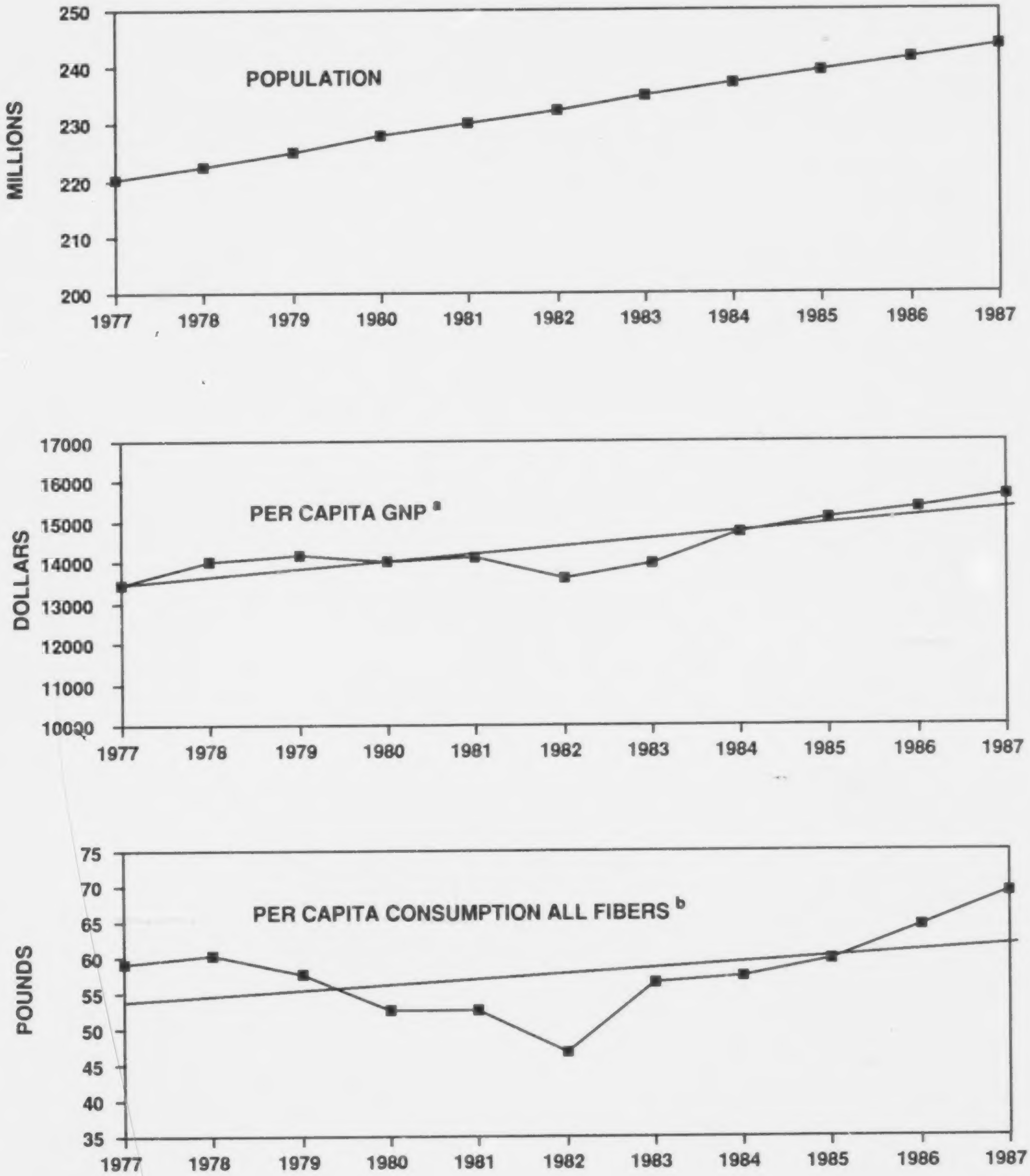
The tables and graphs contained in this review are described as follows:

Table 2:	Per capita GNP derived by dividing the annual Gross National Product data by the population July 1st.
Table 3:	Total U.S. domestic fiber consumption from the April Textile Organon, page 75.
Table 4:	Domestic consumption data in Table 3 divided by July 1st population data.
Table 5:	Summary of total mill consumption of all fibers, except textile glass.
Table 6:	Percentage change and relative growth over time of population, per capita GNP and per capita consumption of the various fibers.
Table 7:	Summary of the raw fiber equivalent of the U.S. imports of semimanufactured and manufactured products.
Table 8:	Listing of imports in per capita terms and their percentage growth over time for comparison with overall per capita domestic consumption.
Graph 1:	Per capita consumption of all fibers, based on the data in Table 4.
Graph 2:	Growth in the population and trends in per capita GNP and per capita consumption of all fibers, as shown in Tables 2 and 4.

GRAPH 1:
PER CAPITA CONSUMPTION



GRAPH 2:
COMPARISON OF POPULATION, GNP & PER CAPITA CONSUMPTION OF ALL FIBERS



a. In 1982 dollars.

b. Data on Glass Fiber are no longer available to prevent company level disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 2:
U.S. POPULATION, GROSS NATIONAL PRODUCT & PER CAPITA GROSS NATIONAL PRODUCT

YEAR	POPULATION[a]	GNP[b]	PER CAPITA GNP[c]
1977	220.2	2958.6	13436
1978	222.6	3115.2	13995
1979	225.1	3192.4	14182
1980	227.8	3187.1	13991
1981	230.1	3248.8	14119
1982	232.5	3166.0	13617
1983	234.8	3275.2	13949
1984	237.0	3492.0	14734
1985	239.3	3607.5	15075
1986	241.6	3713.3	15370
1987	243.9	3820.3	15663

SOURCE: Current Population Reports, U.S. Dept. of Commerce Bureau of the Census.
Survey of Current Business, U.S. Dept. of Commerce Bureau of Economic Analysis.

a. In millions. Population data for all years have been changed to that of July 1.
b. In billions of 1982 dollars.
c. In dollars.

TABLE 3:
U.S. TOTAL FIBER CONSUMPTION
MILLION POUNDS

YEAR	MAN-MADE FIBER[a]	COTTON	WOOL	OTHER FIBERS	TOTAL
1977	8259.2	3469.7	208.3	1071.4	13008.6
1978	8541.9	3530.1	222.2	1086.1	13380.3
1979	8451.8	3334.5	201.0	1021.9	13009.2
1980	7654.8	3352.2	199.1	807.0	12013.1
1981	7722.9	3325.4	234.0	794.7	12077.0
1982	6912.9	3122.7	218.8	648.4	10902.8
1983	8603.2	3711.5	300.7	690.3	13305.7
1984	8644.2	3929.2	361.4	680.1	13614.9
1985	9027.4	4212.0	381.7	646.9	14268.0
1986	9637.6	4937.4	424.1	582.4	15581.5
1987	10057.4	5780.5	420.3	603.5	16861.7

a. Excludes Glass Fiber. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 4:
U.S. PER CAPITA FIBER CONSUMPTION[a]
POUNDS

PERIOD	POPULATION	PER CAPITA				
		MAN-MADE FIBER[b]	COTTON	WOOL	OTHER FIBERS	TOTAL
1977	220.2	37.5	15.8	0.9	4.9	59.1
1978	222.6	38.4	15.9	1.0	4.9	60.2
1979	225.1	37.5	14.8	0.9	4.5	57.7
1980	227.8	33.6	14.7	0.9	3.5	52.7
1981	230.1	33.6	14.5	1.0	3.5	52.6
1982	232.5	29.7	13.4	0.9	2.8	46.8
1983	234.8	36.6	15.8	1.3	2.9	56.6
1984	237.0	36.5	16.6	1.5	2.9	57.5
1985	239.3	37.7	17.6	1.6	2.7	59.6
1986	241.6	39.9	20.4	1.8	2.4	64.5
1987	243.9	41.2	23.7	1.7	2.5	69.1

a. Based on total U.S. domestic consumption (mill consumption plus imports less exports of semimanufactured and manufactured products).
b. Excludes Glass Fiber. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 5:
MILL CONSUMPTION BY FIBER
BILLION POUNDS

YEAR	RAYON	ACETATE[a]	NYLON[b]	POLYESTER	ACRYLIC[c]	OLEFIN	COTTON	WOOL	OTHER FIBERS	TOTAL
1977	0.6	0.3	2.3	3.6	0.7	0.6	3.2	0.1	0.1	11.5
1978	0.6	0.3	2.5	3.7	0.6	0.7	3.0	0.1	0.2	11.7
1979	0.5	0.3	2.7	3.7	0.6	0.7	3.1	0.1	0.2	11.9
1980	0.5	0.3	2.3	3.5	0.6	0.7	3.1	0.1	0.1	11.2
1981	0.5	0.2	2.2	3.5	0.5	0.8	2.7	0.2	0.1	10.7
1982	0.3	0.2	1.9	3.0	0.5	0.8	2.5	0.1	0.1	9.4
1983	0.4	0.2	2.4	3.4	0.5	1.0	2.8	0.2	0.1	11.0
1984	0.4	0.2	2.4	3.2	0.5	1.0	2.7	0.2	0.1	10.7
1985	0.5[d]		2.5	3.1	0.5	1.5	2.8	0.1	0.1	11.1
1986	0.6[d]		2.5	3.2	0.6	1.5	3.3	0.2	0.1	12.0
1987	0.6[d]		2.7	3.5	0.5	1.6	3.7	0.2	0.1	12.9

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

a. Includes triacetate. Cigarette tow is excluded.

b. Includes Aramid for all years except 1983-1987.

c. Includes modacrylic.

d. Rayon and acetate combined.

TABLE 6:
PERCENT ANALYSIS OF POPULATION, PER CAPITA GNP AND PER CAPITA CONSUMPTION OF MAN-MADE FIBER, COTTON, WOOL & OTHER FIBERS

							PER CAPITA CONSUMPTION														
YEAR	POPULATION	%[a]	%[b]	PER CAPITA GNP	%[a]	%[b]	MAN-MADE FIBER[c]	%[a]	%[b]	COTTON	%[a]	%[b]	WOOL	%[a]	%[b]	OTHER FIBERS	%[a]	%[b]	ALL FIBERS	%[a]	%[b]
1977	220.2			13436			37.5			15.8			0.9			4.9			59.1		
1978	222.6	+1.1	+1.1	13995	+4.2	+4.2	38.4	+2.4	+2.4	15.9	+0.6	+0.6	1.0	+11.1	+11.1	4.9	- -	- -	60.2	+1.9	+1.9
1979	225.1	+1.1	+2.2	14182	+1.3	+5.6	37.5	-2.3	- -	14.8	-6.9	-6.3	0.9	-10.0	- -	4.5	-8.2	-8.2	57.7	-4.2	-2.4
1980	227.8	+1.2	+3.5	13991	-1.3	+4.1	33.6	-10.4	-10.4	14.7	-0.7	-7.0	0.9	- -	- -	3.5	-22.2	-28.6	52.7	-8.7	-10.8
1981	230.1	+1.0	+4.5	14119	+0.9	+5.1	33.6	- -	-10.4	14.5	-1.4	-8.2	1.0	+11.1	+11.1	3.5	- -	-28.6	52.6	-0.2	-11.0
1982	232.5	+1.0	+5.6	13617	-3.6	+1.3	29.7	-11.6	-20.8	13.4	-7.6	-15.2	0.9	-10.0	- -	2.8	-20.0	-42.9	46.8	-11.0	-20.8
1983	234.8	+1.0	+6.6	13949	+2.4	+3.8	36.6	+23.2	-2.4	15.8	+17.9	- -	1.3	+44.4	+44.4	2.9	+3.6	-40.8	56.6	+20.9	-4.2
1984	237.0	+0.9	+7.6	14734	+5.6	+9.7	36.5	-0.3	-2.7	16.6	+5.1	+5.1	1.5	+15.4	+66.7	2.9	- -	-40.8	57.5	+1.6	-2.7
1985	239.3	+1.0	+8.7	15075	+2.3	+12.2	37.7	+3.3	+0.5	17.6	+6.0	+11.4	1.6	+6.7	+77.8	2.7	-6.9	-44.9	59.6	+3.7	+0.8
1986	241.6	+1.0	+9.7	15370	+2.0	+14.4	39.9	+5.8	+6.4	20.4	+15.9	+29.1	1.8	+12.5	+100.0	2.4	-11.1	-51.0	64.5	+8.2	+9.1
1987	243.9	+1.0	+10.8	15663	+1.9	+16.6	41.2	+3.3	+9.9	23.7	+16.2	+50.0	1.7	-5.6	+88.9	2.5	+4.2	-49.0	69.1	+7.1	+16.9

Population is in millions of people.
Per Capita GNP is 1982 dollars.
All other Per Capita Consumption data are in pounds.
All data are taken from the tables on page 85.

a. Percent change year to year.

b. Percent change since 1977.

c. Excludes Glass Fiber. Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

TABLE 7:
RAW FIBER EQULIVALENT OF IMPORTS OF MAN-MADE FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

	MAN-MADE FIBER						COTTON						WOOL					
	1982	1983	1984	1985	1986	1987	1982	1983	1984	1985	1986	1987	1982	1983	1984	1985	1986	1987
IMPORTS																		
SEMIMANUFACTURED PRODUCTS																		
YARN, THREAD, ETC	38.2	58.0	71.0	74.7	96.3	91.9	28.5	42.1	54.6	56.3	105.9	134.5	7.7	7.6	16.3	14.1	13.7	14.6
CLOTH	105.7	138.0	170.4	129.1	245.0	211.7	266.5	346.3	450.8	421.2	532.9	649.9	25.6	28.1	39.0	36.4	25.9	29.5
SUBTOTAL	**143.9**	**196.0**	**241.4**	**203.8**	**341.3**	**303.6**	**295.0**	**388.4**	**505.4**	**477.5**	**638.8**	**784.4**	**33.3**	**35.7**	**55.3**	**50.5**	**39.6**	**44.1**
MANUFACTURED PRODUCTS																		
WEARING APPAREL	486.5	576.0	688.9	798.1	929.4	1033.2	510.5	622.8	759.5	895.5	1016.0	1265.6	46.4	58.8	80.8	137.0	155.6	158.9
INDUSTRIAL	1.1	1.3	0.4	0.9	2.7	5.6	10.0	14.3	37.6	32.4	46.4	53.2	NOMINAL QUANTITIES INCLUDED IN OTHER					
HOME FURNISHINGS	66.5	296.1	411.3	394.2	429.2	462.6	67.0	78.0	138.9	169.7	182.9	205.2	19.6	34.8	52.1	60.8	62.9	53.1
ALL OTHER							14.7	31.9	23.4	38.6	26.4	27.3	0.8	2.6	1.2	0.6	2.4	2.2
SUBTOTAL	**554.1**	**873.4**	**1100.6**	**1193.2**	**1361.3**	**1501.4**	**602.2**	**747.0**	**959.4**	**1136.2**	**1271.7**	**1551.3**	**66.8**	**96.2**	**134.1**	**198.4**	**220.9**	**214.2**
TOTAL IMPORTS	**698.0**	**1069.4**	**1342.0**	**1397.0**	**1702.6**	**1805.0**	**897.2**	**1135.4**	**1464.8**	**1613.7**	**1910.5**	**2335.7**	**100.1**	**131.9**	**189.4**	**248.9**	**260.5**	**258.3**

All of this data has been taken from the March 1988 *Textile Organon* issue, page 54.

TABLE 8:
PER CAPITA CONSUMPTION OF IMPORTS OF MAN-MADE FIBER, COTTON & WOOL MANUFACTURES COMPARED WITH PER CAPITA TOTAL CONSUMPTION OF MAN-MADE FIBER, COTTON & WOOL

POUNDS & *PERCENT*

	IMPORTS															DOMESTIC FIBER CONSUMPTION					
	MAN-MADE FIBER					COTTON					WOOL										
YEAR	TOTAL	%[a]	APPAREL	%[a]	%[b]	TOTAL	%[a]	APPAREL	%[a]	%[b]	TOTAL	%[a]	APPAREL	%[a]	%[b]	MAN-MADE FIBER[c]	%[a]	COTTON	%[a]	WOOL	%[a]
1979	2.3		1.6		*69.6*	3.3		1.9		*57.6*	0.4		0.2		*50.0*	37.5		14.8		0.9	
1980	2.4	*+4.3*	1.7	*+6.2*	*70.8*	3.6	*+9.1*	2.0	*+5.3*	*55.6*	0.4	--	0.2	--	*50.0*	33.6	*-10.4*	14.7	*-0.7*	0.9	--
1981	2.8	*+16.7*	1.9	*+11.8*	*67.9*	4.2	*+16.7*	2.2	*+10.0*	*52.4*	0.4	--	0.2	--	*50.0*	33.6	--	14.5	*-1.4*	1.0	*+11.1*
1982	3.0	*+ 7.1*	2.1	*+10.5*	*70.0*	3.9	*-7.1*	2.2	--	*56.4*	0.4	--	0.2	--	*50.0*	29.7	*-11.6*	13.4	*-7.6*	0.9	*-10.0*
1983	4.6	*+53.3*	2.5	*+19.0*	*54.3*	4.8	*+23.1*	2.7	*+22.7*	*56.3*	0.6	*+50.0*	0.3	*+50.0*	*50.0*	36.6	*+23.2*	15.8	*+17.9*	1.3	*+44.4*
1984	5.7	*+23.9*	2.9	*+16.0*	*50.9*	6.2	*+29.2*	3.2	*+18.5*	*51.6*	0.8	*+33.3*	0.3	--	*37.5*	36.5	*-0.3*	16.6	*+5.1*	1.5	*+15.4*
1985	5.8	*+1.8*	3.3	*+13.8*	*56.9*	6.7	*+8.1*	3.7	*+15.6*	*55.2*	1.0	*+25.0*	0.6	*+100.0*	*60.0*	37.7	*+3.3*	17.6	*+6.0*	1.6	*+6.7*
1986	7.0	*+20.7*	3.8	*+15.2*	*54.3*	7.9	*+17.9*	4.2	*+13.5*	*53.2*	1.1	*+10.0*	0.6	--	*54.5*	39.9	*+5.8*	20.4	*+15.9*	1.8	*+12.5*
1987	7.4	*+5.7*	4.2	*+10.5*	*56.8*	9.6	*+21.5*	5.2	*+23.8*	*54.2*	1.1	--	0.7	*+16.7*	*63.6*	41.2	*+3.3*	23.7	*+16.2*	1.7	*-5.6*

a. Percent change from previous year.

b. Apparel as percent of total imports of semimanufactured and manufactured products.

c. Excludes Glass Fiber. Data on Glass Fiber is no longer available due to company disclosure. The series including Glass Fiber was last published in the May 1985 issue.

MAY 1988 CAPACITY SURVEY ANALYSIS

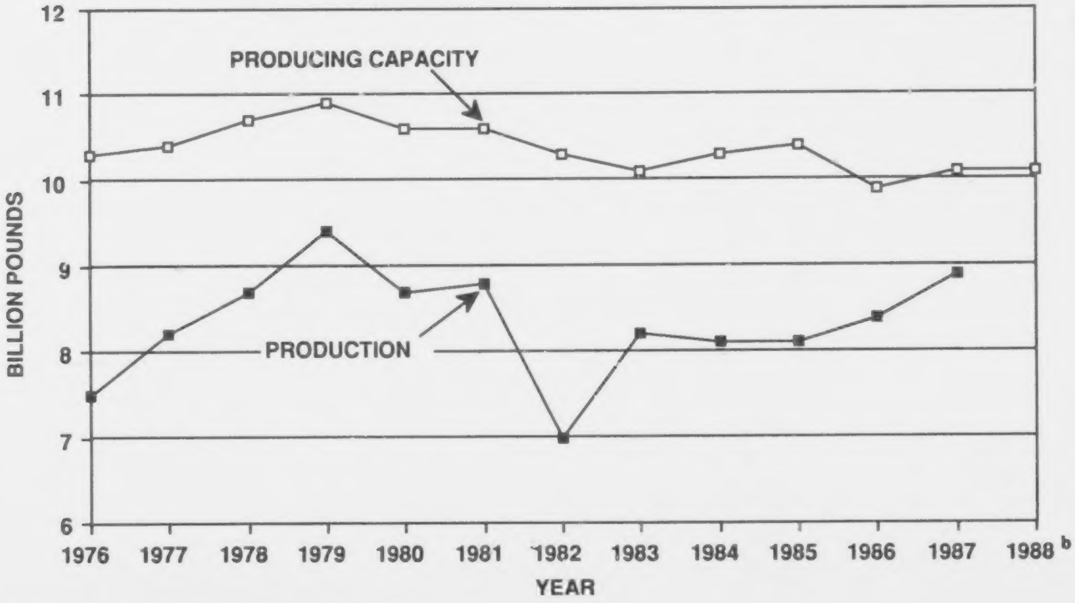
Since the November 1987 Survey, the total man-made fiber producing capacity (excluding textile glass) increased by 49 million pounds or 0.5% to reach 10,138 million pounds. Most of the increase was in capacity for noncellulosic fiber, as cellulosic fiber capacity increased 4 million pounds to reach 713 million pounds. (See Table 9)

Since the November 1987 Survey, noncellulosic filament capacity increased 44 million pounds to reach 4,631 million pounds. Within this category, olefin yarn capacity increased 32 million pounds, while nylon textile yarn capacity increased 9 million pounds and nylon carpet yarn capacity increased 5 million pounds. (See Table 10)

In the same period, producing capacity for noncellulosic staple+tow was virtually unchanged at 4,794 million pounds. The capacity for polyester increased 22 million pounds, while the capacities for acrylic+modacrylic dropped 15 million pounds and nylon decreased by 5 million pounds.

Total man-made fiber production has increased from 8,216 million pounds in 1977, to 8,921 million pounds in 1987. This production increase includes a gain of 859 million pounds for olefin, for uses primarily other than in apparel. Producing capacity for total fibers has decreased from 10,431 million pounds per year in November 1977 to 10,138 million pounds per year in the May 1988 Survey. (See Graph 3)

GRAPH 3:
MAN-MADE FIBER INDUSTRY PRODUCTION & PRODUCING CAPACITY [a]



a. Cellulosic and noncellunosic fiber excluding textile glass.
b. Based on May 1988 capacity survey.

TABLE 9:
U.S. MAN-MADE FIBER PRODUCTION & PRODUCING CAPACITY

MILLION POUNDS

	CELLULOSIC FIBERS							NONCELLULOSIC FIBERS [a]			GRAND TOTAL MAN-MADE FIBERS EXCLUDING TEXTILE GLASS			NON-ADD TEXTILE GLASS FIBER [d]
	FILAMENT YARN+MONOFIL			STAPLE+TOW			TOTAL	YARN +MONO	STAPLE +TOW	TOTAL	YARN +MONO [c]	STAPLE +TOW	TOTAL	
PERIOD	RAYON	ACETATE [b]	TOTAL	RAYON	ACETATE [b]	TOTAL								
ACTUAL ANNUAL PRODUCTION														
1976	68	287	355	475	11	486	841	3306	3320	6626	3661	3806	7467	676
1977	71	282	353	527	8	535	888	3674	3654	7328	4027	4189	8216	787
1978	62	301	363	535	7	542	905	3830	3953	7783	4193	4495	8688	923
1979	57	317	374	549	7	556	930	4155	4282	8437	4529	4838	9367	1014
1980	47	309	356	443	7	450	806	3744	4148	7892	4100	4598	8698	867
1981	48	257	305	461	4	465	770	3815	4191	8006	4120	4656	8776	1041
1982	33	195	228	355	1	356	584	3057	3403	6460	3285	3759	7044	899
1983	36	228	264	375	1	376	640	3568	3970	7538	3832	4346	8178	1169
1984	41	198	239	389	+	389	628	3525	3947	7472	3764	4336	8100	1394
1985			205 g			353 g	558	3790	3773	7563	3995	4126	8121	NA
1986			215 g			404 g	619	3836	3992	7828	4051	4396	8447	NA
1987			191 g			414 g	605	4010	4306	8316	4201	4722	8921	NA
ACTUAL & PROJECTED CAPACITY, ANNUAL RATE, AS OF -														
NOV 1976 e	85	399	484	691	18	709	1193	4878	4254	9132	5362	4963	10325	903
NOV 1977 e	85	315	400	655	8	663	1063	4974	4394	9368	5374	5057	10431	1002
NOV 1978 e	83	330	413	665	8	673	1086	5000	4571	9571	5413	5244	10657	1118
NOV 1979 e	75	355	430	671	8	679	1109	5126	4678	9804	5556	5357	10913	1305
NOV 1980 e	63	324	387	514	8	522	909	4933	4714	9647	5320	5236	10556	1473
NOV 1981 e	52	332	384	509	5	514	898	4766	4950	9716	5150	5464	10614	1561
NOV 1982 e	63	318	381	510	4	514	895	4583	4781	9364	4964	5295	10259	1718
NOV 1983 e	63	268	331	510	4	514	845	4477	4827	9304	4808	5341	10149	1618
NOV 1984 e	63	268	331	510	4	514	845	4509	4981	9490	4840	5495	10335	1743
NOV 1985 e			269 g	510	5	515	784	4698	4890	9588	4967	5405	10372	1769
NOV 1986 e			244 g			465 g	709	4575	4662	9237	4819	5127	9946	1763
NOV 1987 e			244 g			465 g	709	4587	4793	9380	4831	5258	10089	1642
MAY 1988 e			244 g			469 g	713	4631	4794	9425	4875	5263	10138	1691
NOV 1988 f			244 g			469 g	713	4787	4841	9628	5031	5310	10341	1715
MAY 1989 f			244 g			469 g	713	4875	4911	9786	5119	5380	10499	1712
NOV 1989 f			244 g			469 g	713	4924	4936	9860	5168	5405	10573	1716
MAY 1990 f			244 g			469 g	713	4978	4976	9954	5222	5445	10667	1868

NA No longer available.

a. Included are those listed in the November ***Textile Organon*** issue, with the exception of Aramid fiber as of November 1983. Yarn+mono includes olefin film fiber and spunbonded polypropylene. Staple+tow includes fiberfill.

b. Data include diacetate and triacetate. The acetate staple+tow data do not include the large poundages for cigarette filtration.

c. Grand Total Yarn means the yarn+mono shown, excluding textile glass fiber.

d. Textile glass fiber, all types.

e. Actual producing capacity as of the date shown.

f. Future producing capacity planned for certain dates as of NOV 1988.

g. Detail withheld due to disclosure of company data.

TABLE 10:
NONCELLULOSIC FIBER CAPACITY DETAIL

MILLION POUNDS & *AVERAGE DENIER*

PERIOD	FILAMENT YARN, MONOFIL & OLEFIN FILM FIBER												STAPLE, TOW & FIBERFILL					NON-CELLULOSIC TOTAL
	NYLON+ARAMID				POLYESTER			OLEFIN [a]			OTHER [c]	TOTAL	NYLON + ARAMID	ACRYL +MOD ACRYL	POLY-ESTER	OLEFIN + VINYON [f]	TOTAL	
	IND	CARP	TEXTILE		IND	TEXTILE		YARN	MONO [b]	FILM [b]								
			LBS	DEN		LBS	DEN											
NOV 1976 d	519	787	552	*54*	442	1701	*133*	178	312	371	16	4878	910	869	2355	120	4254	9132
NOV 1977 d	523	829	558	*55*	443	1698	*126*	173	336	398	16	4974	939	869	2470	116	4394	9368
NOV 1978 d	510	908	565	*53*	443	1643	*116*	174	347	394	16	5000	1023	865	2554	129	4571	9571
NOV 1979 d	513	950	579	*51*	443	1699	*114*	172	342	408	20	5126	1020	839	2673	146	4678	9804
NOV 1980 d	515	910	551	*52*	400	1637	*113*	120	350	430	20	4933	991	830	2759	134	4714	9647
NOV 1981 d	514	893	553	*49*	316	1481	*114*	178	356	455	20	4766	1010	835	2839	266	4950	9716
NOV 1982 d	474	925	513	*53*	338	1265	*119*	209	369	460	30	4583	978	832	2700	271	4781	9364
NOV 1983 d	440	907	494	*52*	337	1170	*122*	240	375	484	30	4477	1017	826	2704	280	4827	9304
NOV 1984 d	437	926	470	*57*	342	1162	*121*	270	386	486	30	4509	1054	807	2784	336	4981	9490
NOV 1985 d	437	965	466	*53*	374	1097	*126*	304	412	613	30	4698	1067	631	2785	407	4890	9588
NOV 1986 d	435	964	398	*51*	401	1021	*123*	286	407	633	30	4575	1077	637	2491	457	4662	9237
NOV 1987 d	418	1005	404	*49*	399	929	*121*	342	393	667	30	4587	1137	652	2522	482	4793	9380
MAY 1988 d	419	1012	413	*48*	396	928	*139*	374	392	667	30	4631	1132	637	2544	481	4794	9425
NOV 1988 e	420	1065	428	*48*	412	928	*139*	408	404	692	30	4787	1158	642	2551	490	4841	9628
MAY 1989 e	420	1101	428	*48*	417	928	*139*	442	416	693	30	4875	1163	642	2616	490	4911	9786
NOV 1989 e	420	1127	433	*48*	418	928	*139*	459	416	693	30	4924	1168	642	2616	510	4936	9860
MAY 1990 e	420	1137	438	*47*	418	928	*139*	498	416	693	30	4978	1173	647	2616	540	4976	9954

NOTE: As of the November 1983 survey, nylon capacity data no longer include Aramid Fiber.

IND Industrial yarn and monofil, i.e., 500 denier & coarser, with an Instron tenacity of 7 grams per denier or more.

CARP Bulked continuous filament yarn for carpets.

TEXTILE Yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

a. Includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles, film fiber used for decorative or tying ribbons, etc.

b. Includes the circular and rectangular (ribbon) cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated fiber.

c. Other yarn & monofil is chiefly saran and spandex. Aramid data are included with nylon.

d. Actual producing capacity as of date shown.

e. Future producing capacity planned for certain dates as of NOV 1988.

f. Data since November 1986 do not include Vinyon.

SURVEY COVERAGE & DEFINITIONS

The survey figures shown in the table above cover the man-made fibers in all their primary forms; i.e., filament yarn, monofilaments, polypropylene spunbonded and film fiber are tabulated as filament yarn, while staple, tow and fiberfill are tabulated as staple. The glass fiber data cover all primary forms of that fiber (yarn and strand, staple yarn and sliver, roving and cake, chopped and milled fiber and mat) although only an aggregate figure is published to avoid disclosure of individual company data. **Glass fiber data are no longer included with the filament yarn totals. The data were last published in the December 1984 issue.** The "capacity" to produce waste is **not** included in this survey.

Capacity is based on the current and projected "mix" of deniers, filament counts, packages, etc. It is **emphasized** that all figures refer to ***current*** and ***planned*** capacity. **They are not to be interpreted as a production forecast.**

Under the survey definitions, all productive equipment which is currently, or is planned to be, in operable condition is counted as capacity, regardless of whether it is actually producing fiber at the time the capacity measurement is taken. Equipment which is definitely scheduled for scrapping, or which has been scrapped since the last survey, is excluded from the capacity tabulation. The capacity data reflect ***potential***, rather than ***operating*** capacity.

TABLE 11:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEMS & COUNTRY	1988												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	0										0	138
BRAZIL	54	0	28										82	115
CANADA	426	481	507										1414	968
GERMANY, FED. REP.	353	635	281										1269	1232
JAPAN	277	131	45										453	258
MEXICO	62	53	18										133	28
NETHERLANDS	190	229	228										647	249
ALL OTHER COUNTRIES [a]	11	1	21										33	5
TOTAL CELLULOSIC YARN	**1373**	**1530**	**1128**										**4031**	**2993**
CELLULOSIC STAPLE+TOW														
CANADA	1086	774	974										2834	3293
ITALY	34	73	19										126	147
JAPAN	99	0	91										190	395
SWEDEN	0	41	45										86	43
UNITED KINGDOM	57	0	79										136	124
ALL OTHER COUNTRIES [b]	28	0	10										38	67
TOTAL CELLULOSIC STAPLE+TOW	**1304**	**888**	**1218**										**3410**	**4069**
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436	1117	1665										4218	3344
CANADA	1448	1872	2140										5460	4479
CHINA, PRC	0	10	1										11	94
COSTA RICA	606	570	382										1558	1886
DENMARK	0	0	0										0	93
FRANCE	767	588	716										2071	2030
GERMANY, FED. REP.	1074	1355	1522										3951	6562
IRELAND	37	34	74										145	139
ISRAEL	388	309	118										815	485
ITALY	761	811	177										1749	3360
JAPAN	648	212	443										1303	2232
KOREA, REP. OF	3	23	33										59	84
MEXICO	1428	2004	1308										4740	5731
NETHERLANDS	49	42	26										117	428
SINGAPORE	81	41	44										166	139
SWITZERLAND	32	0	5										37	319
TAIWAN	12	26	12										50	116
UNITED KINGDOM	676	753	146										1575	2175
ALL OTHER COUNTRIES [c]	172	234	201										607	412
TOTAL NONCELLULOSIC YARN	**9618**	**10001**	**9013**										**28632**	**34108**
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601	727	752										2080	209
BELGIUM	35	0	18										53	75
BRAZIL	0	0	0										0	674
CANADA	2003	2183	2981										7167	9397
FRANCE	934	799	800										2533	2075
GERMANY, FED. REP.	2738	3040	2503										8281	7139
IRELAND	80	123	162										365	109
ISRAEL	8	0	0										8	93
ITALY	130	362	145										637	6153
JAPAN	1963	2057	1894										5914	5661
KOREA, REP. OF	1355	1516	1456										4327	2537
MALAYSIA	0	95	48										143	143
MEXICO	303	549	210										1062	4602
ROMANIA	448	0	86										534	1020
SWITZERLAND	102	21	153										276	421
TAIWAN	1986	1109	1425										4520	4808
UNITED KINGDOM	1604	1503	2175										5282	3579
ALL OTHER COUNTRIES [d]	52	30	48										130	172
TOTAL NONCELLULOSIC STAPLE+TOW	**14342**	**14114**	**14856**										**43312**	**48867**

+ Less than 1 thousand pounds.

[a] Singapore 18, Korea, Rep. of 11, Italy 2, Taiwan 1, United Kingdom 1, France.

[b] Australia 25, France 10, Germany, Fed. Rep. of 2, Belgium 1.

[c] Spain 146, Chile 111, Romania 110, Sweden 102, Australia 52, Argentina 42,Turkey 30, Brazil 7, Austria 6, Vatican City 1, Greece, India.

[d] Australia 74, Hong Kong 25, Netherlands 20, Spain 7, Egypt 3, Portugal 1, Philippines.

TABLE 12:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0	+	0										+	168
OTHER	310.0130 & .0230[a]	1362	1468	1021										3851	2819
MONOFILAMENTS	309.0310 & .0610	0	+	0										+	5
STRIPS, $1/LB & UNDER	309.2000*	11	62	107										180	1
SUBTOTAL ABOVE		**1373**	**1530**	**1128**										**4031**	**2993**
STAPLE	309.4320 & .4325	1182	890	1107										3179	3838
GROUPED FILAMENTS	309.3010 & .3310	122	0	111										233	231
SUBTOTAL ABOVE		**1304**	**890**	**1218**										**3412**	**4069**
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	0	+	0										+	0
NONCELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341	297	204										842	418
DENIER AND OVER	310.0108 & .0208	1503	1643	1531										4677	8694
- POLYESTER	310.0110 & .0210	989	1368	1024										3381	4913
- OTHER	310.0114 & .0214	2158	1830	2815										6803	5282
OTHER - NYLON	310.0149 & .0249	1154	1567	1602										4323	6479
- POLYESTER	310.0150 & .0250	2153	1631	332										4116	5333
- OTHER	310.0170 & .0270[b]	762	1085	876										2723	1541
MONOFILAMENTS	309.0200 & .0330[c]	381	384	307										1072	818
STRIPS, OVER $1/LB	309.2100 & .2500*	177	196	322										695	630
SUBTOTAL ABOVE		**9618**	**10001**	**9013**										**28632**	**34108**
STAPLE - NYLON	309.4331 & .4351	1696	1306	1915										4917	14809
- POLYESTER	309.4336 & .4361	4653	5670	4716										15039	15487
- ACRYLIC	309.4366	1214	953	1179										3346	3257
- OLEFIN	309.4371	83	104	534										721	197
- OTHER	309.4341 & .4390	1350	1625	1750										4725	2616
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713	2877	3289										9879	7918
POLYESTER	309.3040 & .3340	441	215	65										721	1087
ACRYLIC	309.3050 & .3350	1066	1331	1249										3666	3078
OTHER	309.3065 & .3365	106	33	159										298	418
SUBTOTAL ABOVE		**14342**	**14114**	**14856**										**43312**	**48867**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940	1991	1933										6864	7561
- POLYESTER	309.6630	550	487	1073										2110	3375
- ACRYLIC	309.6645	0	0	21										21	73
- OTHER	309.6660	221	273	392										886	1743
NOILS & GARNETTED FIBERS	309.7000*	80	0	0										80	0
OTHER WASTE, ADVANCED	309.7525 - .7555	596	596	637										1829	262
SUBTOTAL ABOVE		**4387**	**3347**	**4056**										**11790**	**13014**
TOTAL MAN-MADE ABOVE		**31024**	**29882**	**30271**										**91177**	**103051**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+										+	+
- NONCELLULOSIC	310.1015[d]& .1205[e]	340	110	184										634	1007
OTHER - CELLULOSIC	310.1030 & .1535[f]	15	21	5										41	170
- NONCELLULOSIC	310.1050 & .1070[g]	276	262	305										843	981
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	62	95	137										294	428
- OTHER	310.4015 & .4027[i]	2503	1471	1826										5800	9406
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2122	1933	1143										5198	4795
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	607	197	1714										2518	2230
SLIVER, TOPS & ROVING	309.9000	271	287	351										909	943
TEXTILE GLASS FIBER	309.2800 & .2900[k]	2526	2716	404										5646	4952
GRAND TOTAL ABOVE		**39746**	**36974**	**36340**										**113060**	**127963**

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

+ Less than 1 thousand pounds.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

[a] Also includes 310.0610.

[b] Also includes 310.0530, .0550, .0630 & .0650.

[c] Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

[d] There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

[e] Also includes 310.1210.

[f] Also includes 310.2110.

[g] Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

[h] Also includes 310.5005 & .5030.

[i] Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

[j] Also includes 310.9320 & .9500.

[k] Chiefly roving. Also includes 309.9800 & .9900.

TABLE 13:
U.S. EXPORTS OF MAN-MADE FIBER

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
FILAMENT YARN [a]															
TEXTURED	310.0004	27	2	6										35	244
OTHER [b]	310.0026	683	991	556										2230	1479
MONOFILAMENTS	309.0110	89	36	5										130	0
STRIPS	309.2210	0	23	0										23	42
SUBTOTAL ABOVE		**799**	**1052**	**567**										**2418**	**1765**
STAPLE+TOW-RAYON	309.4222	1019	1907	1702										4628	8769
STAPLE-ACETATE	309.4219	89	66	309										464	301
SUBTOTAL ABOVE		**1108**	**1973**	**2011**										**5092**	**9070**
WASTE, ADVANCED&NOT ADVANCED	309.7400	**143**	**251**	**198**										**592**	**447**
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651	4775	4929										13355	7861
- HIGH TENACITY [c]	310.0027	8372	8470	8040										24882	19086
- OTHER	310.0029	786	1111	2189										4086	1925
POLYESTER - TEXTURED	310.0010	1739	2796	3405										7940	8245
- HIGH TENACITY [c]	310.0032	1421	1817	2189										5427	5912
- OTHER [d]	310.0034	207	225	265										697	545
OTHER - TEXTURED	310.0014	1067	1904	2220										5191	3941
- OLEFIN	310.0040	83	626	121										830	162
- OTHER	310.0044	360	729	886										1975	1620
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	658	728	515										1901	1744
POLYESTER	309.0140	1641	1789	2345										5775	1369
OTHER	309.0170	680	901	768										2349	1845
STRIPS	309.2220 & .2270	415	192	277										884	1153
SUBTOTAL ABOVE		**21080**	**26063**	**28149**										**75292**	**55208**
STAPLE - NYLON	309.4240	2423	1511	1760										5694	6432
- POLYESTER	309.4242	13519	7586	10316										31421	52413
- ACRYLIC	309.4245	17224	11389	16118										44731	10678
- OLEFIN	309.4246	1488	1604	2696										5788	6551
- OTHER	309.4247	1228	1696	3193										6117	6225
GROUPED FILAMENTS															
NYLON	309.3220	693	497	469										1659	1406
POLYESTER [d]	309.3240	2108	1330	2067										5505	5351
ACRYLIC	309.3250 & .3255	4966	3683	3809										12458	5665
SUBTOTAL ABOVE		**43649**	**29296**	**40428**										**113373**	**94721**
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	685	1210	1189										3084	3259
- POLYESTER	309.7630	3959	4435	6616										15010	12782
- ACRYLIC	309.7640	312	1219	923										2454	3993
- OTHER	309.7660	3765	3582	3138										10485	10667
SUBTOTAL ABOVE		**8721**	**10446**	**11866**										**31033**	**30701**
TOTAL MAN-MADE ABOVE		**75500**	**69081**	**83219**										**227800**	**191912**
TEXTILE GLASS FIBER	309.2700 & .9700	8813	9352	9114										27279	19737
GRAND TOTAL ABOVE		**84313**	**78433**	**92333**										**255079**	**211649**

SOURCE: U.S. Census Bureau Report EM522.

+ Less than 1 thousand pounds.

a. Includes thrown, singles and plied yarn.

b. Includes rayon tire cord and cord fabric.

c. Includes noncellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

TABLE 14:
QUARTERLY MAN-MADE FIBER DATA

MILLION POUNDS

ITEM	1986					1987					1988				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						YARN+MONOFILAMENTS									
CELLULOSIC YARN [d]															
PRODUCTION	54.3	54.7	54.1	51.7	214.8	46.2	46.7	45.2	53.0	191.1	49.1				
SHIPMENTS - DOMESTIC	48.6	50.4	47.7	45.4	192.1	39.2	43.6	40.2	43.8	166.8	41.4				
- EXPORT	4.7	5.1	4.9	5.5	20.2	5.0	5.9	6.1	7.9	24.9	8.7				
TOTAL SHIPMENTS	53.3	55.5	52.6	50.9	212.3	44.2	49.5	46.3	51.7	191.7	50.1				
ENDING STOCK	13.3	12.5	14.0	14.8		16.8	14.0	12.9	14.2		13.2				
IMPORTS	3.9	4.6	3.6	4.1	16.2	3.0	2.5	2.7	4.4	12.6	4.0				
TOTAL AVAILABLE	52.5	55.0	51.3	49.5	208.3	42.2	46.1	42.9	48.2	179.4	45.4				
NYLON															
PRODUCTION	396.9	396.5	398.3	414.6	1606.3	414.1	427.5	432.9	422.7	1697.2	429.4				
SHIPMENTS - DOMESTIC	363.4	368.7	377.7	370.6	1480.4	389.3	394.8	405.8	364.4	1554.3	388.4				
- EXPORT	26.7	28.2	25.1	32.8	112.8	32.1	37.9	33.7	35.8	139.5	39.6				
TOTAL SHIPMENTS	390.1	396.9	402.8	403.4	1593.2	421.4	432.7	439.5	400.2	1693.8	428.0				
ENDING STOCK	126.5	126.1	121.6	132.8		125.5	120.3	113.7	136.2		137.6				
OLEFIN [a]															
PRODUCTION	245.9	255.7	259.5	296.6	1057.7	255.8	283.9	287.4	306.7	1133.8	301.6				
SHIPMENTS - DOMESTIC	241.3	258.4	257.8	291.7	1049.2	261.5	281.8	287.5	304.7	1135.5	298.3				
- EXPORT	2.4	2.9	2.6	2.6	10.5	2.7	1.7	1.8	2.1	8.3	2.7				
TOTAL SHIPMENTS	243.7	261.3	260.4	294.3	1059.7	264.2	283.5	289.3	306.8	1143.8	301.0				
ENDING STOCK	67.1	61.5	60.6	62.9		54.5	54.9	53.0	52.9		53.5				
POLYESTER															
PRODUCTION	322.2	271.5	285.5	293.5	1172.7	287.7	303.3	293.9	293.8	1178.7	284.5				
SHIPMENTS - DOMESTIC	284.8	253.5	273.7	280.4	1092.4	266.8	285.2	280.8	280.6	1113.4	266.7				
- EXPORT	21.8	23.8	14.3	17.4	77.3	16.4	18.4	15.8	16.3	66.9	18.8				
TOTAL SHIPMENTS	306.6	277.3	288.0	297.8	1169.7	283.2	303.6	296.6	296.9	1180.3	285.5				
ENDING STOCK	123.5	117.7	115.2	110.9		115.4	115.1	112.4	109.3		108.3				
TOTAL NONCELLULOSIC ABOVE															
PRODUCTION	965.0	923.7	943.3	1004.7	3836.7	957.6	1014.7	1014.2	1023.2	4009.7	1015.5				
SHIPMENTS - DOMESTIC	889.5	880.6	909.2	942.7	3622.0	917.6	961.8	974.1	949.7	3803.2	953.4				
- EXPORT	50.9	54.9	42.0	52.8	200.6	51.2	58.0	51.3	54.2	214.7	61.1				
TOTAL SHIPMENTS	940.4	935.5	951.2	995.5	3822.6	968.8	1019.8	1025.4	1003.9	4017.9	1014.5				
ENDING STOCK	317.1	305.3	297.4	306.6		295.4	290.3	279.1	298.4		299.4				
DOMESTIC SHIPMENTS	889.5	880.6	909.2	942.7	3622.0	917.6	961.8	974.1	949.7	3803.2	953.4				
IMPORTS -TEXTURED YARN [b]	17.9	19.5	20.4	24.1	81.9	19.3	15.1	17.2	16.9	68.5	15.7				
-OTHER YARN [b]	12.3	13.9	14.7	14.0	54.9	13.3	12.4	11.9	11.3	48.9	11.2				
-MONOFILAMENTS	0.8	0.6	0.5	0.8	2.7	0.8	0.9	1.0	1.1	3.8	1.8				
TOTAL IMPORTS	31.0	34.0	35.6	38.9	139.5	33.4	28.4	30.1	29.3	121.2	28.7				
TOTAL AVAILABLE	920.5	914.6	944.8	981.6	3761.5	951.0	990.2	1004.2	979.0	3924.4	982.1				
						TEXTILE GLASS FIBER									
TOTAL SHIPMENTS	330.6	352.6	333.0	322.2	1339.3	366.1	392.5	383.3	371.2	1513.1	384.2				
IMPORTS	7.9	6.0	4.4	5.4	23.7	4.9	5.6	11.3	7.6	29.4	5.6				

FOOTNOTES FOR TABLE ABOVE & OPPOSITE:

"Imports" are imports for consumption, as reported by the U.S. Census Bureau.

a. Also include film fiber as well as spunbonded polypropylene.

b. Includes singles and plied.

c. These figures are composites of the nylon, acrylic+modacrylic and polyester staple imports, i.e., Commodity Numbers 309.4331, .4351, .4336 & .4361.

d. Includes both rayon & acetate yarn.

e. These figures are composites of olefin and other staple imports, i.e., Commodity Numbers 309.4371, .4341 & .4390.

f. 1987-1988 data exclude Vinyon.

TABLE 15:
QUARTERLY MAN-MADE FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1986					1987					1988				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
							STAPLE+TOW								
RAYON															
PRODUCTION	**95.1**	**99.7**	**103.4**	**105.5**	**403.7**	**101.3**	**100.5**	**103.6**	**108.4**	**413.8**	**106.6**				
SHIPMENTS - DOMESTIC	91.6	92.0	95.1	94.3	373.0	91.8	91.0	97.9	102.4	383.1	101.9				
- EXPORT	6.3	6.9	7.3	10.3	30.8	8.1	8.2	12.6	3.5	32.4	5.1				
TOTAL SHIPMENTS	**97.9**	**98.9**	**102.4**	**104.6**	**403.8**	**99.9**	**99.2**	**110.5**	**105.9**	**415.5**	**107.0**				
ENDING STOCK	**19.7**	**20.5**	**21.5**	**22.4**		**23.8**	**25.1**	**18.2**	**20.7**		**20.3**				
DOMESTIC SHIPMENTS	91.6	92.0	95.1	94.3	373.0	91.8	91.0	97.9	102.4	383.1	101.9				
IMPORTS FOR CONSUMPTION															
STAPLE	3.9	3.6	4.6	4.3	16.4	3.9	3.8	2.6	2.7	13.0	3.2				
GROUPED FILAMENTS	0.3	0.3	0.3	0.1	1.0	0.2	0.1	0.4	0.2	0.9	0.2				
TOTAL IMPORTS	4.2	3.9	4.9	4.4	17.4	4.1	3.9	3.0	2.9	13.9	3.4				
TOTAL AVAILABLE	**95.8**	**95.9**	**100.0**	**98.7**	**390.4**	**95.9**	**94.9**	**100.9**	**105.3**	**397.0**	**105.3**				
NYLON															
PRODUCTION	**220.5**	**207.4**	**236.1**	**244.3**	**908.3**	**247.4**	**261.0**	**252.8**	**231.2**	**992.4**	**230.9**				
SHIPMENTS-DOMESTIC	195.2	203.2	254.3	242.2	894.9	246.2	253.2	246.2	220.4	966.0	238.8				
-EXPORT	3.9	2.9	3.0	3.5	13.3	5.3	5.0	3.7	5.5	19.5	4.3				
TOTAL SHIPMENTS	**199.1**	**206.1**	**257.3**	**245.7**	**908.2**	**251.5**	**258.2**	**249.9**	**225.9**	**985.5**	**243.1**				
ENDING STOCK	**84.1**	**85.4**	**64.2**	**62.8**		**58.7**	**61.5**	**64.4**	**69.7**		**57.5**				
IMPORTS	11.9	10.6	14.9	14.6	52.0	14.8	8.7	8.6	6.9	39.0	4.9				
TOTAL AVAILABLE	**207.1**	**213.8**	**269.2**	**256.8**	**946.9**	**261.0**	**261.9**	**254.8**	**227.3**	**1005.0**	**243.7**				
ACRYLIC+MODACRYLIC															
PRODUCTION	**149.0**	**151.1**	**158.0**	**157.8**	**615.9**	**155.7**	**159.0**	**135.3**	**141.5**	**591.5**	**148.8**				
SHIPMENTS-DOMESTIC	123.1	143.7	138.7	125.7	531.2	139.4	131.6	112.8	95.5	479.3	109.0				
-EXPORT	27.1	19.2	17.8	18.8	82.9	14.7	17.0	32.0	51.4	115.1	47.7				
TOTAL SHIPMENTS	**150.2**	**162.9**	**156.5**	**144.5**	**614.1**	**154.1**	**148.6**	**144.8**	**146.9**	**594.4**	**156.7**				
ENDING STOCK	**63.2**	**51.4**	**52.9**	**66.2**		**67.8**	**78.2**	**68.7**	**63.3**		**55.4**				
IMPORTS	3.2	4.0	5.3	4.9	17.4	3.3	4.1	4.6	3.7	15.7	3.3				
TOTAL AVAILABLE	**126.3**	**147.7**	**144.0**	**130.6**	**548.6**	**142.7**	**135.7**	**117.4**	**99.2**	**495.0**	**112.3**				
OLEFIN+VINYON [f]															
PRODUCTION	**82.4**	**82.3**	**84.7**	**85.9**	**335.3**	**85.5**	**92.3**	**92.1**	**90.6**	**360.5**	**94.3**				
SHIPMENTS-DOMESTIC	73.9	82.6	76.4	79.8	312.7	81.1	85.7	86.1	88.2	341.1	83.8				
-EXPORT	4.2	4.8	4.8	5.0	18.8	6.9	5.7	5.4	4.8	22.8	5.6				
TOTAL SHIPMENTS	**78.1**	**87.4**	**81.2**	**84.8**	**331.5**	**88.0**	**91.4**	**91.5**	**93.0**	**363.9**	**89.4**				
ENDING STOCK	**34.0**	**28.9**	**32.4**	**33.5**		**31.0**	**31.9**	**32.5**	**30.1**		**35.0**				
POLYESTER															
PRODUCTION	**520.8**	**538.7**	**522.1**	**550.7**	**2132.3**	**581.0**	**596.2**	**578.4**	**606.2**	**2361.8**	**592.6**				
SHIPMENTS-DOMESTIC	499.1	499.9	496.3	503.3	1998.6	534.4	549.9	537.5	579.2	2201.0	563.5				
-EXPORT	25.7	25.0	31.6	42.5	124.8	48.2	47.0	38.3	34.7	168.2	27.8				
TOTAL SHIPMENTS	**524.8**	**524.9**	**527.9**	**545.8**	**2123.4**	**582.6**	**596.9**	**575.8**	**613.9**	**2369.2**	**591.3**				
ENDING STOCK	**151.0**	**164.8**	**159.0**	**163.9**		**162.3**	**161.6**	**164.2**	**156.5**		**157.8**				
IMPORTS	9.3	8.9	8.7	13.9	40.8	15.5	17.4	23.4	14.4	70.7	15.0				
TOTAL AVAILABLE	**508.4**	**508.8**	**505.0**	**517.2**	**2039.4**	**549.9**	**567.3**	**560.9**	**593.6**	**2271.7**	**578.5**				
TOTAL NONCELLULOSIC															
PRODUCTION	**972.7**	**979.5**	**1000.9**	**1038.7**	**3991.8**	**1069.6**	**1108.5**	**1058.6**	**1069.5**	**4306.2**	**1066.6**				
SHIPMENTS-DOMESTIC	891.3	929.4	965.7	951.0	3737.4	1001.1	1020.4	982.6	983.3	3987.4	995.1				
-EXPORT	60.9	51.9	57.2	69.8	239.8	75.1	74.7	79.4	96.4	325.6	85.4				
TOTAL SHIPMENTS	**952.2**	**981.3**	**1022.9**	**1020.8**	**3977.2**	**1076.2**	**1095.1**	**1062.0**	**1079.7**	**4313.0**	**1080.5**				
ENDING STOCK	**332.3**	**330.5**	**308.5**	**326.4**		**319.8**	**333.2**	**329.8**	**319.6**		**305.7**				
DOMESTIC SHIPMENTS	891.3	929.4	965.7	951.0	3737.4	1001.1	1020.4	982.6	983.3	3987.4	995.1				
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE [c]	24.4	23.5	28.9	33.4	110.2	33.6	30.2	36.6	25.0	125.4	23.2				
OTHER N.C. STAPLE [e]	7.2	4.4	2.5	2.0	16.1	2.8	3.6	3.7	3.4	13.5	5.6				
GROUPED FILAMENTS	14.4	15.0	14.7	12.4	56.5	12.4	12.4	12.1	13.1	50.0	14.5				
TOTAL IMPORTS	46.0	42.9	46.1	47.8	182.8	48.8	46.2	52.4	41.5	188.9	43.3				
TOTAL AVAILABLE	**937.3**	**972.3**	**1011.8**	**998.8**	**3920.2**	**1049.9**	**1066.6**	**1035.0**	**1024.8**	**4176.3**	**1038.4**				

See footnotes on opposite page.

TABLE 16:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

	1988												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
	MAN-MADE FIBER TOTAL SHIPMENTS[b,c]													
CELLULOSIC														
YARN	15.9	16.1	18.1	19.4									69.5	60.7
RAYON STAPLE	32.6	35.9	38.5	35.5									142.5	133.1
TOTAL CELLULOSIC	**48.5**	**52.0**	**56.6**	**54.9**									**212.0**	**193.8**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5	32.1	34.8	32.2									126.6	123.9
- CARPET	72.6	80.7	84.6	80.1									318.0	309.5
- TEXTILE[f]	30.0	31.2	34.5	31.7									127.4	126.5
POLYESTER - INDUSTRIAL[d]	26.5	29.3	30.7	31.3									117.8	111.3
- TEXTILE[f]	62.9	68.4	67.7	73.0									272.0	275.3
OLEFIN[e]	97.2	101.4	102.4	100.0									401.0	353.1
TOTAL YARN	**316.7**	**343.1**	**354.7**	**348.3**									**1362.8**	**1299.6**
STAPLE+TOW+FIBERFILL														
NYLON	78.0	81.7	83.4	71.0									314.1	340.2
ACRYLIC+MODACRYLIC	48.5	52.8	55.4	45.4									202.1	205.3
POLYESTER	190.4	202.4	198.5	212.1									803.4	777.7
OLEFIN	29.1	29.6	30.7	29.8									119.2	119.1
TOTAL STAPLE	**346.0**	**366.5**	**368.0**	**358.3**									**1438.8**	**1442.3**
TOTAL NONCELLULOSIC	**622.7**	**709.6**	**722.7**	**706.6**									**2801.6**	**2741.9**
TOTAL MAN-MADE FIBER	**711.2**	**761.6**	**779.3**	**761.5**									**3013.6**	**2935.7**
	MAN-MADE FIBER END OF MONTH STOCK													
CELLULOSIC														
YARN	12.3	13.3	13.2	14.0									14.0	15.2
RAYON STAPLE	23.5	22.5	20.3	18.0									18.0	24.7
TOTAL CELLULOSIC	**35.8**	**35.8**	**33.5**	**32.0**									**32.0**	**39.9**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6	25.7	23.5	23.3									23.3	29.0
- CARPET	72.0	66.5	67.0	66.5									66.5	52.4
- TEXTILE[f]	51.8	50.1	47.1	47.2									47.2	47.2
POLYESTER - INDUSTRIAL[d]	29.8	29.2	28.8	29.6									29.6	29.0
- TEXTILE[f]	82.5	81.5	79.5	77.3									77.3	83.2
OLEFIN[e]	54.4	55.0	53.5	54.1									54.1	56.3
TOTAL YARN	**317.1**	**308.0**	**299.4**	**298.0**									**298.0**	**297.1**
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7	57.5	64.4									64.4	57.7
ACRYLIC+MODACRYLIC	62.4	58.8	55.4	57.9									57.9	70.1
POLYESTER	173.7	168.3	157.8	161.8									161.8	162.4
OLEFIN	32.5	33.7	35.0	35.8									35.8	30.3
TOTAL STAPLE	**332.0**	**325.5**	**305.7**	**319.9**									**319.9**	**320.5**
TOTAL NONCELLULOSIC	**649.1**	**633.5**	**605.1**	**617.9**									**617.9**	**617.6**
TOTAL MAN-MADE FIBER	**684.9**	**669.3**	**638.6**	**649.9**									**649.9**	**657.5**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.9	12.6											25.5	26.9
CARPET CLASS WOOL	1.4	1.5											2.9	1.6
TOTAL RAW WOOL	14.3	14.1											28.4	28.5
RAW COTTON	300.0	311.4	337.2	279.3									1227.9	1227.3

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

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TEXTILE ORGANON

Volume 59, No. 6 ☐ June 1988

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WORLDWIDE MAN-MADE FIBER SURVEY

HIGHLIGHTS:

o Worldwide Survey -

Fiber Demand
Production and Producing Capacities
Utilization Rates
Directory of Producers
Ownership Listing
Olefin Fiber Production

Featuring....

Our annual survey of worldwide man-made fiber production and planned capacity, with a worldwide directory of man-made fiber producers.

Worldwide data in this issue are reported in thousand metric tons. The production and capacity tables will be published again in the July issue in millions of pounds. Country data on available supply will be published in the ***Textile Organon*** as soon as the information is available.

Data for previous years for most of the tables in this issue can be found in the ***Textile Organon Base Book*** (1962) and subsequent June issues of the ***Textile Organon***. The cotton demand figures shown in the table below are based on worldwide consumption rather than production, to eliminate problems from wide swings in cotton inventories.

TABLE 1:
WORLDWIDE DEMAND FOR CERTAIN FIBERS
THOUSAND METRIC TONS

TYPE OF FIBER	1983	1984	1985	1986	1987	*% CHANGE 1987 / 1986*
CELLULOSIC FIBERS						
YARN+MONOFILAMENTS	940	937	922	937	926	*-1.2*
STAPLE+TOW	1989	2065	2006	1902	1907	*+0.3*
TOTAL CELLULOSIC	**2929**	**3002**	**2928**	**2839**	**2833**	***-0.2***
NONCELLULOSIC FIBERS						
YARN+MONOFILAMENTS	4867	5225	5579	5752	6095	*+6.0*
STAPLE+TOW	6209	6625	6921	7241	7663	*+5.8*
TOTAL NONCELLULOSIC	**11076**	**11850**	**12500**	**12993**	**13758**	***+5.9***
TOTAL MAN-MADE [a]	**14005**	**14852**	**15428**	**15832**	**16591**	***+4.8***
% of World Total	*46%*	*47%*	*46%*	*44%*	*45%*	
NATURAL FIBERS						
RAW COTTON [b]	15062	15272	16578	18250	18122	*-0.7*
RAW WOOL [c]	1639	1677	1678	1712	1753	*+2.4*
RAW SILK [d]	55	56	59	63	63	*0*
TOTAL NATURAL	**16756**	**17005**	**18315**	**20025**	**19938**	***-0.4***
% of World Total	*54%*	*53%*	*54%*	*56%*	*55%*	
WORLD TOTAL	**30761**	**31857**	**33743**	**35857**	**36529**	***+1.9***
World Total %	*100%*	*100%*	*100%*	*100%*	*100%*	

The silk and man-made fiber data are on a calendar year basis, while the figures for cotton and wool are on a seasonal basis.

a. Man-made fiber data are from tables 2 and 3. Glass fiber, olefin and acetate cigarette tow production are not included.

b. International Cotton Advisory Committee. New series based on cotton consumption data.

c. Commonwealth Secretariat data, on a clean wool basis. See also the December 1987 *Textile Organon*, page 277.

d. International Silk Association; Food and Agriculture Organization of the United Nations.

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TEXTILE ECONOMICS BUREAU, INC.
President
Rosemarie D. Frick

Editor, Textile Organon
David S. Morey

Publishing Headquarters:
Textile Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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DATAGRAM

WORLDWIDE TOTAL MAN-MADE FIBER PRODUCTION INCREASED 759 THOUSAND METRIC TONS IN 1987

Total worldwide man-made fiber production, except olef[illegible] increased 759 thousand metric tons or 4.8% in 1987 to reach a level of 16,591 thousand metric tons. In 1987 production was 2,586 thousand metric tons or 18.5% above the quantity produced in 1983. Total U.S. man-made fiber production increased 5.3% in 1987 and 2.1% since 1983. Since 1983, the U.S. share of world production fell from 23.6% to 20.3%.

WORLDWIDE NONCELLULOSIC FIBER PRODUCTION INCREASED 5.9% IN 1987

Noncellulosic fiber production increased 765 thousand metric tons worldwide in 1987 to reach 13,758 metric tons. The total quantity represents a gain of 5.9% for the year and of 24.2% since 1983. Since 1983, U.S. production of noncellulosic fiber increased 2.9%.

CELLULOSIC FIBER PRODUCTION VIRTUALLY UNCHANGED WORLDWIDE IN 1987

Worldwide production of cellulosic fiber decreased 6 thousand metric tons or 0.2% in 1987 to reach 2,833 thousand metric tons. In the same period, U.S. production decreased 2.2%. Since 1983, worldwide cellulosic fiber production has declined 3.3%.

OTHER ASIA COUNTRIES SHOW A BIG GAIN IN NONCELLULOSIC FIBER PRODUCTION

In 1987 the Other Asia countries increased noncellulosic fiber production by 312 thousand metric tons or 11.5%. China, PRC increased production by 109 thousand metric tons or 13.6%. On a percent basis, the third fastest growing area was East Europe, with a gain of 6.5% or 104 thousand metric tons.

WORLDWIDE POLYESTER PRODUCTION GREW 8.0% IN 1987

Production of total polyester grew 552 thousand metric tons, or 8.0% worldwide in 1987 to reach a total of 7,464 thousand metric tons. Within this total, polyester staple production grew 309 thousand metric tons or 7.7% and polyester filament grew 243 thousand metric tons or 8.4%. Other fiber types that showed gains on a percent basis include nylon staple up 5.9%, nylon filament up 3.5% and acrylic+modacrylic up 2.8%.

PRODUCING CAPACITY OF NONCELLULOSIC FIBER INCREASED 0.8% WORLDWIDE IN 1987 AS CELLULOSIC CAPACITY DECREASED 4.3%

Worldwide noncellulosic fiber capacity increased by 0.9% in 1987 and cellulosic capacity decreased 4.3%. However, planned capacity additions between March 1988 and December 1989 will boost worldwide noncellulosic capacity by 1,290 thousand metric tons or 7.7%. The Other Asia countries will increase capacity by 762 thousand metric tons or 21.0% and China, PRC will increase capacity by 191 thousand metric tons or 17.9%.

THE WORLDWIDE CAPACITY UTILIZATION RATE INCREASED TO 81.1% FOR YARN AND TO 83.6% FOR STAPLE+TOW

The 1987 utilization rate, which is 1987 production divided by the 1987 average producing capacity, grew to 81.1% for yarn and to 83.6% for staple. The three products with the highest utilization rates worldwide were acrylic+modacrylic staple at 86.3%, polyester staple at 83.5% and polyester filament at 82.1%.

TABLE 2:
WORLDWIDE NONCELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN

THOUSAND METRIC TONS

COUNTRY	ACTUAL PRODUCTION								
	1983			1984			1985		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE									
AUSTRIA	0	18.0	18.0	0	18.1	18.1	0	18.1	18.1
BENELUX[a]	68.0	21.6	89.6	76.1	24.1	100.2	80.5	30.1	110.6
FINLAND	0.5	0	0.5	0.5	0	0.5	0.5	0	0.5
FRANCE	63.2	129.0	192.2	60.2	131.5	191.7	60.7	122.0	182.7
GERMANY, FED. REP.	339.2	393.0	732.2	352.0	379.0	731.0	360.0	402.0	762.0
GREECE	9.0	10.0	19.0	9.0	10.0	19.0	9.0	10.0	19.0
IRELAND	11.0	34.0	45.0	11.5	38.7	50.2	11.5	45.3	56.8
ITALY/MALTA	142.5	316.1	458.6	154.0	373.8	527.8	171.6	392.0	563.6
PORTUGAL	1.0	42.0	43.0	1.0	45.0	46.0	1.0	51.0	52.0
SPAIN	74.6	173.2	247.8	77.6	182.8	260.4	85.0	189.9	274.9
SWITZERLAND	60.2	28.0	88.2	71.7	27.8	99.5	73.1	26.6	99.7
TURKEY	37.0	102.5	139.5	48.5	112.7	161.2	52.0	134.0	186.0
UNITED KINGDOM	70.8	153.0	223.8	80.0	160.0	240.0	84.7	158.0	242.7
TOTAL WESTERN EUROPE	**877.0**	**1420.4**	**2297.4**	**942.1**	**1503.5**	**2445.6**	**989.6**	**1579.0**	**2568.6**
EASTERN EUROPE									
ALBANIA	0	0	0	0	0	0	0.4	0	0.4
BULGARIA	25.6	37.0	62.6	24.9	42.8	67.7	28.0	42.8	70.8
CZECHOSLOVAKIA	64.5	34.9	99.4	69.9	37.1	107.0	76.0	38.8	114.8
GERMANY, DEM .REP.	65.0	76.2	141.2	65.0	78.9	143.9	65.0	80.8	145.8
HUNGARY	8.2	12.4	20.6	8.6	12.6	21.2	9.0	12.7	21.7
POLAND	79.1	62.2	141.3	83.3	61.0	144.3	86.4	62.5	148.9
ROMANIA	46.0	107.0	153.0	57.0	117.4	174.4	58.0	138.8	196.8
USSR	345.0	277.0	622.0	372.8	285.5	658.3	388.8	324.0	712.8
YUGOSLAVIA	28.5	45.0	73.5	33.5	60.9	94.4	35.5	59.5	95.0
TOTAL EASTERN EUROPE	**661.9**	**651.7**	**1313.6**	**715.0**	**696.2**	**1411.2**	**747.1**	**759.9**	**1507.0**
TOTAL EUROPE	**1538.9**	**2072.1**	**3611.0**	**1657.1**	**2199.7**	**3856.8**	**1736.7**	**2338.9**	**4075.6**

Y Yarn+monofilaments.

S Staple+tow+fiberfill.

a. Includes Belgium, Netherlands and Luxembourg.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
0	15.0	15.0	0	14.1	14.1	0	22.0	22.0	0	22.0	22.0
73.0	34.4	107.4	74.0	33.0	107.0	99.5	69.0	168.5	99.5	69.0	168.5
0.2	0	0.2	0.5	0	0.5	0.6	0	0.6	0.6	0	0.6
61.2	106.0	167.2	52.0	107.0	159.0	86.0	133.0	219.0	86.0	133.0	219.0
347.0	395.0	742.0	355.3	408.7	764.0	418.0	433.0	851.0	418.0	433.0	851.0
9.6	10.0	19.6	8.0	10.0	18.0	17.7	12.0	29.7	17.7	12.0	29.7
13.0	61.0	74.0	12.0	63.0	75.0	14.0	66.5	80.5	14.0	66.5	80.5
175.0	397.0	572.0	171.0	393.0	564.0	194.7	425.0	619.7	194.7	425.0	619.7
0	55.0	55.0	0	60.5	60.5	0	65.0	65.0	0	65.0	65.0
84.9	186.0	270.9	79.2	183.8	263.0	121.0	226.2	347.2	121.0	226.2	347.2
67.1	26.0	93.1	67.8	22.1	89.9	85.0	33.0	118.0	85.0	33.0	118.0
60.0	169.0	229.0	73.0	187.0	260.0	112.0	216.0	328.0	150.0	216.0	366.0
78.2	130.0	208.2	81.4	121.6	203.0	107.0	179.0	286.0	107.0	159.0	266.0
969.2	**1584.4**	**2553.6**	**974.2**	**1603.8**	**2578.0**	**1255.5**	**1879.7**	**3135.2**	**1293.5**	**1859.7**	**3153.2**
0.4	0	0.4	0.5	0	0.5	2.0	5.0	7.0	2.0	5.0	7.0
38.0	42.9	80.9	39.1	43.7	82.8	60.0	93.0	153.0	60.0	108.0	168.0
78.0	50.5	128.5	79.6	52.3	131.9	95.5	87.0	182.5	95.5	87.0	182.5
77.0	81.8	158.8	77.9	82.7	160.6	90.0	90.0	180.0	97.0	115.0	212.0
7.7	13.4	21.1	6.8	16.9	23.7	12.0	23.0	35.0	12.0	32.0	44.0
85.6	62.3	147.9	87.0	64.1	151.1	110.2	84.0	194.2	110.2	84.0	194.2
58.8	140.9	199.7	59.5	142.4	201.9	68.0	174.0	242.0	68.0	179.0	247.0
404.8	353.0	757.8	435.0	401.0	836.0	476.0	472.0	948.0	504.0	488.0	992.0
39.7	57.6	97.3	44.0	63.9	107.9	72.0	112.0	184.0	72.0	112.0	184.0
790.0	**802.4**	**1592.4**	**829.4**	**867.0**	**1696.4**	**985.7**	**1140.0**	**2125.7**	**1020.7**	**1210.0**	**2230.7**
1759.2	**2386.8**	**4146.0**	**1803.6**	**2470.8**	**4274.4**	**2241.2**	**3019.7**	**5260.9**	**2314.2**	**3069.7**	**5383.9**

TABLE 2:
WORLDWIDE NONCELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN *(CONTINUED)*
THOUSAND METRIC TONS

COUNTRY	ACTUAL PRODUCTION								
	1983			1984			1985		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	1293.5	1715.0	3008.5	1259.8	1677.1	2936.9	1286.3	1577.9	2864.2
OTHER AMERICAS									
ARGENTINA	24.2	16.0	40.2	27.3	21.4	48.7	27.1	16.8	43.9
BOLIVIA	2.0	0	2.0	0	0	0	0	0	0
BRAZIL	105.7	79.6	185.3	118.2	97.6	215.8	121.7	95.8	217.5
CANADA	68.3	55.0	123.3	69.6	59.0	128.6	75.1	58.0	133.1
CHILE	2.6	1.0	3.6	2.8	1.1	3.9	4.1	2.0	6.1
COLOMBIA	31.3	8.9	40.2	38.6	10.7	49.3	38.3	9.9	48.2
COSTA RICA	3.5	0	3.5	3.5	0	3.5	3.5	0	3.5
ECUADOR	4.6	0	4.6	4.8	0	4.8	4.9	0	4.9
MEXICO	126.3	143.2	269.5	147.4	152.8	300.2	155.5	150.4	305.9
PERU	12.5	31.0	43.5	13.0	34.1	47.1	11.3	33.0	44.3
URUGUAY	1.6	3.7	5.3	1.6	3.4	5.0	1.8	4.0	5.8
VENEZUELA	9.7	4.0	13.7	10.2	5.5	15.7	12.5	6.0	18.5
TOTAL OTHER AMERICAS	392.3	342.4	734.7	437.0	385.6	822.6	455.8	375.9	831.7
JAPAN	597.3	720.9	1318.2	634.0	735.3	1369.3	645.4	757.3	1402.7
CHINA, PRC	69.0	317.2	386.2	99.1	460.3	559.4	134.9	597.1	732.0
OTHER ASIA									
BANGLADESH	0.2	0	0.2	0.3	0	0.3	0.5	0	0.5
INDIA	87.2	40.8	128.0	106.3	56.0	162.3	127.5	66.2	193.7
INDONESIA	66.4	61.8	128.2	71.5	73.3	144.8	76.9	70.3	147.2
KOREA, REP. OF	336.5	327.6	664.1	369.6	376.9	746.5	408.7	402.9	811.6
MALAYSIA	0	35.0	35.0	0	35.5	35.5	0	38.8	38.8
PAKISTAN	8.1	18.6	26.7	12.8	21.7	34.5	20.0	23.0	43.0
PHILIPPINES	24.5	12.8	37.3	20.5	13.0	33.5	22.0	12.2	34.2
SRI LANKA	1.0	0	1.0	1.0	0	1.0	1.2	0	1.2
TAIWAN	324.1	414.0	738.1	419.3	452.5	871.8	509.5	514.1	1023.6
THAILAND	40.0	50.0	90.0	39.7	52.4	92.1	42.6	55.0	97.6
TOTAL OTHER ASIA	888.0	960.6	1848.6	1041.0	1081.3	2122.3	1208.9	1182.5	2391.4
MIDDLE EAST, AFRICA & OCEANIA									
AUSTRALIA/N.Z.	14.5	1.0	15.5	13.0	1.0	14.0	14.6	1.0	15.6
EGYPT	3.5	20.6	24.1	5.5	25.6	31.1	5.6	27.6	33.2
IRAN	15.0	27.0	42.0	13.5	20.0	33.5	13.5	25.0	38.5
ISRAEL	8.7	7.0	15.7	9.5	7.0	16.5	13.7	7.3	21.0
KENYA	3.8	0	3.8	4.5	0	4.5	5.1	0	5.1
NIGERIA	2.5	2.5	5.0	3.0	3.0	6.0	3.2	3.0	6.2
SOUTH AFRICA	38.0	23.0	61.0	46.5	29.7	76.2	52.8	27.4	80.2
TANZANIA	2.0	0	2.0	2.0	0	2.0	2.0	0	2.0
TOTAL M.E., A. & O.	88.0	81.1	169.1	97.5	86.3	183.8	110.5	91.3	201.8
TOTAL WORLD	4867.0	6209.3	11076.3	5225.5	6625.6	11851.1	5578.5	6920.9	12499.4

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
1260.2	**1658.6**	**2918.8**	**1304.5**	**1789.8**	**3094.3**	**1450.6**	**1956.4**	**3407.0**	**1522.3**	**2007.6**	**3529.9**
30.7	24.4	55.1	28.4	29.4	57.8	56.3	38.0	94.3	63.3	38.0	101.3
0	0	0	0	0	0	5.0	0	5.0	5.0	0	5.0
137.5	102.2	239.7	136.2	111.8	248.0	174.4	133.2	307.6	178.4	133.2	311.6
75.3	64.3	139.6	71.5	58.2	129.7	120.4	77.0	197.4	120.4	77.0	197.4
4.0	2.3	6.3	4.4	2.7	7.1	10.7	8.0	18.7	10.7	8.0	18.7
38.7	9.2	47.9	39.9	9.5	49.4	55.2	13.0	68.2	55.2	13.0	68.2
4.2	0	4.2	4.1	0	4.1	8.0	0	8.0	8.0	0	8.0
5.8	+	5.8	6.0	0	6.0	8.0	7.0	15.0	8.0	7.0	15.0
134.7	161.6	296.3	148.2	187.8	336.0	217.7	237.0	454.7	226.7	267.0	493.7
11.4	33.5	44.9	11.9	33.9	45.8	20.0	38.0	58.0	20.0	38.0	58.0
1.8	3.2	5.0	2.0	3.4	5.4	5.0	5.5	10.5	5.0	5.5	10.5
13.4	6.5	19.9	16.8	6.7	23.5	23.0	11.5	34.5	23.0	11.5	34.5
457.5	**407.2**	**864.7**	**469.4**	**443.4**	**912.8**	**703.7**	**568.2**	**1271.9**	**723.7**	**598.2**	**1321.9**
605.2	**750.4**	**1355.6**	**608.8**	**731.8**	**1340.6**	**824.0**	**946.5**	**1770.5**	**824.0**	**946.5**	**1770.5**
207.4	**593.6**	**801.0**	**269.0**	**641.0**	**910.0**	**306.0**	**760.0**	**1066.0**	**362.0**	**895.0**	**1257.0**
0.5	0	0.5	0.5	0	0.5	1.0	18.0	19.0	1.0	18.0	19.0
140.8	82.6	223.4	141.6	90.3	231.9	194.5	205.1	399.6	234.3	372.9	607.2
83.1	79.6	162.7	87.0	84.9	171.9	150.0	147.0	297.0	208.0	169.0	377.0
436.3	425.9	862.2	478.7	490.6	969.3	529.4	516.0	1045.4	573.4	524.0	1097.4
0	37.9	37.9	0	38.9	38.9	0	42.0	42.0	0	42.0	42.0
25.8	24.4	50.2	27.8	25.4	53.2	34.0	38.0	72.0	45.0	60.0	105.0
20.0	12.4	32.4	21.5	12.7	34.2	39.0	19.0	58.0	39.0	19.0	58.0
1.3	0	1.3	1.5	0	1.5	3.0	0	3.0	3.0	0	3.0
605.6	626.5	1232.1	715.1	676.2	1391.3	815.3	715.3	1530.6	1082.0	809.3	1891.3
40.0	57.0	97.0	51.3	67.2	118.5	74.2	77.0	151.2	87.2	92.0	179.2
1353.4	**1346.3**	**2699.7**	**1525.0**	**1486.2**	**3011.2**	**1840.4**	**1777.4**	**3617.8**	**2272.9**	**2106.2**	**4379.1**
16.3	1.0	17.3	18.1	1.1	19.2	25.5	1.5	27.0	25.5	1.5	27.0
6.3	30.6	36.9	6.9	32.1	39.0	14.6	57.0	71.6	14.6	96.0	110.6
9.5	26.0	35.5	9.5	25.9	35.4	39.5	50.0	89.5	39.5	50.0	89.5
10.5	7.3	17.8	11.5	7.4	18.9	22.0	11.0	33.0	22.0	11.0	33.0
5.1	1.0	6.1	5.0	1.1	6.1	17.0	5.4	22.4	17.0	5.4	22.4
3.5	3.1	6.6	4.0	3.1	7.1	8.0	5.0	13.0	8.0	5.0	13.0
56.2	29.5	85.7	56.8	29.9	86.7	65.0	40.0	105.0	68.0	40.0	108.0
2.5	0	2.5	3.0	0	3.0	5.0	0	5.0	5.0	0	5.0
109.9	**98.5**	**208.4**	**114.8**	**100.6**	**215.4**	**196.6**	**169.9**	**366.5**	**199.6**	**208.9**	**408.5**
5752.8	**7241.4**	**12994.2**	**6095.1**	**7663.6**	**13758.7**	**7562.5**	**9198.1**	**16760.6**	**8218.7**	**9832.1**	**18050.8**

TABLE 3:
WORLDWIDE CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY
THOUSAND METRIC TONS

	ACTUAL PRODUCTION								
	1983			1984			1985		
COUNTRY	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE [a]									
AUSTRIA	11.4	109.7	121.1	14.8	109.0	123.8	14.9	109.0	123.9
BELGIUM/NETHERLANDS	41.1	6.1	47.2	41.1	0	41.1	42.0	0	42.0
FINLAND	0	57.6	57.6	0	58.0	58.0	0	60.0	60.0
FRANCE	8.4	29.5	37.9	7.5	19.0	26.5	7.0	15.0	22.0
GERMANY, FED. REP.	59.0	55.0	114.0	61.0	55.0	116.0	64.0	55.0	119.0
GREECE	6.3	0	6.3	6.0	0	6.0	7.0	0	7.0
ITALY	29.3	0	29.3	30.6	0	30.6	30.2	0	30.2
PORTUGAL	0.9	0	0.9	1.0	0	1.0	1.0	0	1.0
SPAIN	10.5	21.5	32.0	7.2	26.1	33.3	7.5	30.0	37.5
SWEDEN	0	39.3	39.3	0	40.1	40.1	0	33.0	33.0
TURKEY	0.3	4.0	4.3	0.3	4.5	4.8	1.0	7.0	8.0
UNITED KINGDOM	25.0	115.2	140.2	21.0	106.2	127.2	19.0	60.2	79.2
TOTAL WESTERN EUROPE	**192.2**	**437.9**	**630.1**	**190.5**	**417.9**	**608.4**	**193.6**	**369.2**	**562.8**
EASTERN EUROPE									
BULGARIA	4.1	35.0	39.1	4.1	37.1	41.2	4.1	37.6	41.7
CZECHOSLOVAKIA	20.1	37.9	58.0	20.5	38.6	59.1	20.9	39.6	60.5
GERMANY, DEM. REP.	35.0	130.1	165.1	35.2	135.0	170.2	35.4	132.4	167.8
HUNGARY	0	6.4	6.4	0	7.0	7.0	0	5.5	5.5
POLAND	18.2	51.2	69.4	19.5	56.0	75.5	20.5	50.6	71.1
ROMANIA	8.5	51.0	59.5	8.5	51.0	59.5	8.8	53.0	61.8
USSR	254.9	345.0	599.9	257.0	345.0	602.0	246.0	340.0	586.0
YUGOSLAVIA	14.0	58.0	72.0	14.0	55.0	69.0	14.9	55.0	69.9
TOTAL EASTERN EUROPE	**354.8**	**714.6**	**1069.4**	**358.8**	**724.7**	**1083.5**	**350.6**	**713.7**	**1064.3**
TOTAL EUROPE	**547.0**	**1152.5**	**1699.5**	**549.3**	**1142.6**	**1691.9**	**544.2**	**1082.9**	**1627.1**

Y Yarn+monofilaments.

S Staple+tow+fiberfill.

a. Starting in 1986 country detail is no longer available due to disclosure.

These totals do not include data for the Indonesian pilot plant nor production of cellulosic fiber in North Korea.

Production and producing capacity by country, divided between rayon and acetate yarn, is given on pages 108 - 109.

Also note page 112 for data on production of cigarette tow.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
DETAIL NO LONGER AVAILABLE		123.0	DETAIL NO LONGER AVAILABLE		120.0	DETAIL NO LONGER AVAILABLE		130.5	DETAIL NO LONGER AVAILABLE		130.5
		40.0			40.0			44.2			44.2
		55.0			54.0			70.0			70.0
		21.0			23.0			23.0			23.0
		119.0			118.0			131.0			131.0
		7.7			7.8			8.0			8.0
		30.0			29.2			43.0			43.0
		0.9			1.2			2.0			2.0
		37.0			36.0			42.1			44.1
		22.1			23.0			47.0			47.0
		8.0			8.0			10.4			10.4
		58.0			55.0			75.5			75.5
190.6	**331.1**	**521.7**	**186.2**	**329.0**	**515.2**	**224.0**	**402.7**	**626.7**	**224.0**	**404.7**	**628.7**
4.2	38.0	42.2	4.3	38.4	42.7	5.0	42.0	47.0	5.0	42.0	47.0
21.1	40.5	61.6	21.4	41.0	62.4	27.0	61.0	88.0	27.0	61.0	88.0
35.6	92.1	127.7	35.9	92.6	128.5	39.0	160.0	199.0	39.0	160.0	199.0
0	5.5	5.5	0	5.6	5.6	0	10.0	10.0	10.0	10.0	20.0
19.1	52.9	72.0	19.0	53.8	72.8	32.0	71.5	103.5	32.0	71.5	103.5
9.0	55.0	64.0	9.0	57.0	66.0	11.0	95.0	106.0	11.0	95.0	106.0
246.0	343.0	589.0	246.5	345.0	591.5	290.0	353.0	643.0	290.0	353.0	643.0
15.1	56.0	71.1	13.3	50.0	63.3	17.0	60.0	77.0	17.0	60.0	77.0
350.1	**683.0**	**1033.1**	**349.4**	**683.4**	**1032.8**	**421.0**	**852.5**	**1273.5**	**431.0**	**852.5**	**1283.5**
540.7	**1014.1**	**1554.8**	**535.6**	**1012.4**	**1548.0**	**645.0**	**1255.2**	**1900.2**	**655.0**	**1257.2**	**1912.2**

TABLE 3:
WORLDWIDE CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY *(CONTINUED)*
THOUSAND METRIC TONS

	ACTUAL PRODUCTION								
	1983			1984			1985		
COUNTRY	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	**119.7**	**170.6**	**290.3**	**108.4**	**176.7**	**285.1**	**92.8**	**160.2**	**253.0**
OTHER AMERICAS									
ARGENTINA	1.7	0	1.7	1.8	1.5	3.3	1.5	1.5	3.0
BRAZIL	18.4	22.0	40.4	17.7	29.0	46.7	20.1	26.5	46.6
CANADA	10.0	30.0	40.0	10.0	33.9	43.9	8.0	26.9	34.9
CHILE	1.0	3.2	4.2	1.2	3.7	4.9	1.3	3.8	5.1
COLOMBIA	1.8	0	1.8	1.8	0	1.8	1.8	0	1.8
CUBA	2.0	3.5	5.5	2.0	3.5	5.5	2.1	6.4	8.5
MEXICO	10.8	5.0	15.8	11.6	4.0	15.6	12.6	0	12.6
PERU	1.0	0	1.0	1.7	0	1.7	1.7	0	1.7
URUGUAY	1.0	0	1.0	1.0	0	1.0	1.0	0	1.0
VENEZUELA	1.5	0	1.5	1.9	0	1.9	2.1	0	2.1
TOTAL OTHER AMERICAS	**49.2**	**63.7**	**112.9**	**50.7**	**75.6**	**126.3**	**52.2**	**65.1**	**117.3**
JAPAN	**116.8**	**271.0**	**387.8**	**110.8**	**266.6**	**377.4**	**104.6**	**283.3**	**387.9**
CHINA, PRC	**30.4**	**100.0**	**130.4**	**45.0**	**108.0**	**153.0**	**50.0**	**130.0**	**180.0**
OTHER ASIA									
BANGLADESH	2.5	1.0	3.5	2.5	1.0	3.5	2.2	1.0	3.2
INDIA	46.2	69.9	116.1	41.7	100.1	141.8	46.9	95.0	141.9
INDONESIA	0	34.1	34.1	0	41.3	41.3	0	40.0	40.0
KOREA, REP. OF	12.9	0	12.9	12.8	0	12.8	13.8	0	13.8
PAKISTAN	2.7	0	2.7	3.1	0	3.1	3.2	0	3.2
TAIWAN	3.0	98.5	101.5	2.5	125.5	128.0	2.4	119.5	121.9
THAILAND	0	17.5	17.5	0	18.0	18.0	0	19.0	19.0
TOTAL OTHER ASIA	**67.3**	**221.0**	**288.3**	**62.6**	**285.9**	**348.5**	**68.5**	**274.5**	**343.0**
MIDDLE EAST, AFRICA & OCEANIA									
EGYPT	7.0	4.6	11.6	7.0	4.6	11.6	7.0	4.7	11.7
IRAQ	3.0	5.5	8.5	3.0	5.5	8.5	3.0	5.5	8.5
TOTAL M.E., A & O	**10.0**	**10.1**	**20.1**	**10.0**	**10.1**	**20.1**	**10.0**	**10.2**	**20.2**
TOTAL WORLD	**940.4**	**1988.9**	**2929.3**	**936.8**	**2065.5**	**3002.3**	**922.3**	**2006.2**	**2928.5**

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
97.4	**183.3**	**280.7**	**86.7**	**187.9**	**274.6**	***110.7***	***212.7***	***323.4***	***110.7***	***212.7***	***323.4***
3.6	3.6	7.2	3.0	3.3	6.3	*10.8*	*5.0*	*15.8*	*10.8*	*5.0*	*15.8*
16.8	33.6	50.4	15.0	33.9	48.9	*21.1*	*41.7*	*62.8*	*21.1*	*41.7*	*62.8*
8.8	29.1	37.9	8.5	28.5	37.0	*14.5*	*38.0*	*52.5*	*14.5*	*38.0*	*52.5*
1.3	3.9	5.2	1.3	4.0	5.3	*1.5*	*5.4*	*6.9*	*1.5*	*5.4*	*6.9*
1.8	0	1.8	1.9	0	1.9	*3.5*	*0*	*3.5*	*3.5*	*0*	*3.5*
2.6	8.7	11.3	2.7	8.8	11.5	*3.0*	*9.0*	*12.0*	*3.0*	*9.0*	*12.0*
12.0	0	12.0	12.3	0	12.3	*15.8*	*0*	*15.8*	*15.8*	*0*	*15.8*
1.7	0	1.7	1.7	0	1.7	*1.7*	*0*	*1.7*	*1.7*	*0*	*1.7*
1.3	0	1.3	1.2	0	1.2	*1.9*	*0*	*1.9*	*1.9*	*0*	*1.9*
2.2	0	2.2	2.2	0	2.2	*2.4*	*0*	*2.4*	*2.4*	*0*	*2.4*
52.1	**78.9**	**131.0**	**49.8**	**78.5**	**128.3**	***76.2***	***99.1***	***175.3***	***76.2***	***99.1***	***175.3***
102.8	**217.2**	**320.0**	**99.4**	**201.1**	**300.5**	***135.5***	***248.5***	***384.0***	***135.5***	***248.5***	***384.0***
60.0	**130.0**	**190.0**	**70.0**	**140.0**	**210.0**	***100.0***	***150.0***	***250.0***	***100.0***	***150.0***	***250.0***
4.6	1.1	5.7	4.8	1.3	6.1	*6.5*	*10.5*	*17.0*	*6.5*	*10.5*	*17.0*
49.6	90.4	140.0	49.5	96.3	145.8	*70.8*	*128.8*	*199.6*	*78.9*	*136.1*	*215.0*
0	40.8	40.8	0	41.5	41.5	*0*	*47.0*	*47.0*	*0*	*47.0*	*47.0*
13.9	0	13.9	14.0	0	14.0	*14.0*	*28.1*	*42.1*	*15.8*	*28.1*	*43.9*
3.2	0	3.2	3.2	0	3.2	*3.3*	*0*	*3.3*	*3.3*	*0*	*3.3*
2.8	117.1	119.9	2.4	117.2	119.6	*4.0*	*129.6*	*133.6*	*4.0*	*129.6*	*133.6*
0	19.0	19.0	0	21.4	21.4	*0*	*23.7*	*23.7*	*0*	*31.0*	*31.0*
74.1	**268.4**	**342.5**	**73.9**	**277.7**	**351.6**	***98.6***	***367.7***	***466.3***	***108.5***	***382.3***	***490.8***
7.0	4.7	11.7	7.0	4.8	11.8	*7.0*	*5.4*	*12.4*	*7.0*	*5.4*	*12.4*
3.0	5.5	8.5	3.1	5.5	8.6	*3.5*	*6.5*	*10.0*	*3.5*	*6.5*	*10.0*
10.0	**10.2**	**20.2**	**10.1**	**10.3**	**20.4**	***10.5***	***11.9***	***22.4***	***10.5***	***11.9***	***22.4***
937.1	**1902.1**	**2839.2**	**925.5**	**1907.9**	**2833.4**	***1176.5***	***2345.1***	***3521.6***	***1196.4***	***2361.7***	***3558.1***

TABLE 4:
WORLDWIDE RAYON VS. ACETATE FILAMENT YARN PRODUCTION & PRODUCING CAPACITY BY COUNTRY
THOUSAND METRIC TONS

COUNTRY	ACTUAL PRODUCTION								
	1983			1984			1985		
	H	R&C	A	H	R&C	A	H	R&C	A
WESTERN EUROPE									
AUSTRIA	8	4	0	10	5	0	10	5	0
BELGIUM/NETHERLANDS	18	17	7	18	16	7	18	17	7
FRANCE	0	8	0	0	7	0	0	7	0
GERMANY, FED. REP. OF [a]	39	20	0	40	21	0	40	24	0
ITALY [a]	9	2	18	11	2	18	10	2	18
SPAIN	3	4	3	+	4	3	+	4	3
UNITED KINGDOM	0	0	25	0	0	21	0	0	19
OTHER [b]	0	8	0	0	7	0	0	9	0
TOTAL WESTERN EUROPE	**77**	**63**	**53**	**79**	**62**	**49**	**78**	**68**	**47**
EASTERN EUROPE									
BULGARIA	0	4	0	0	4	0	0	4	0
CZECHOSLOVAKIA	8	12	0	8	12	0	8	13	0
GERMANY, DEM. REP.	13	22	0	13	22	0	14	22	0
POLAND	4	14	0	5	15	0	5	15	0
ROMANIA	5	3	0	5	3	0	5	4	0
USSR [a]	120	80	55	120	80	57	116	80	50
YUGOSLAVIA	7	7	0	7	7	0	8	7	0
TOTAL EASTERN EUROPE	**157**	**142**	**55**	**158**	**143**	**57**	**156**	**145**	**50**
U.S.A. [a]	**11**	**6**	**103**	**13**	**6**	**90**	**9**	**6**	**78**
OTHER AMERICAS									
ARGENTINA	0	0	2	0	0	2	0	0	2
BRAZIL	3	14	1	4	12	2	4	15	1
CANADA	0	0	10	0	0	10	0	0	8
CHILE	0	1	0	0	1	0	0	1	0
COLOMBIA	0	0	2	0	0	2	0	0	2
CUBA	2	0	0	2	0	0	2	0	0
MEXICO	3	2	6	2	3	6	3	3	7
PERU	0	0	1	0	0	2	0	0	2
URUGUAY	0	0	1	0	0	1	0	0	1
VENEZUELA	0	0	1	0	0	2	0	0	2
TOTAL OTHER AMERICAS	**8**	**17**	**24**	**8**	**16**	**27**	**9**	**19**	**25**
JAPAN [a]	**3**	**82**	**32**	**2**	**78**	**31**	**2**	**74**	**28**
CHINA, PRC	**0**	**30**	**0**	**0**	**45**	**0**	**0**	**50**	**0**
OTHER ASIA									
BANGLADESH	0	2	0	0	3	0	0	2	0
INDIA	10	35	1	8	33	1	7	40	+
KOREA, REP. OF	0	11	2	0	11	2	0	12	2
PAKISTAN	0	0	3	0	0	3	0	0	3
TAIWAN	0	3	0	0	2	0	0	2	0
TOTAL OTHER ASIA	**10**	**51**	**6**	**8**	**49**	**6**	**7**	**56**	**5**
OTHER M.E., A & O [c]	**0**	**10**	**0**	**0**	**10**	**0**	**0**	**10**	**0**
WORLD TOTAL	**266**	**401**	**273**	**268**	**409**	**260**	**261**	**428**	**233**

H	High tenacity (tire & industrial type) viscose rayon yarn.
R	Regular + intermediate tenacity viscose rayon yarn.
C	Cuprammonium rayon yarn.
A	Acetate + triacetate yarn.
a.	Produces both regular + intermediate rayon yarn and cuprammonium rayon yarn.
b.	Comprises Greece, Portugal and Turkey.
c.	Comprises Egypt and Iraq.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
H	R&C	A	H	R&C	A	H	R&C	A	H	R&C	A
DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE		
71	**69**	**51**	**71**	**69**	**46**	**84**	**85**	**55**	**84**	**85**	**55**
0	4	0	0	4	0	0	5	0	0	5	0
8	13	0	8	13	0	11	16	0	11	16	0
14	22	0	14	22	0	15	24	0	15	24	0
5	13	0	5	14	0	9	23	0	9	23	0
5	4	0	5	4	0	6	5	0	6	5	0
116	80	50	117	80	50	120	100	70	120	100	70
8	8	0	6	7	0	8	9	0	8	9	0
156	**144**	**50**	**155**	**144**	**50**	**169**	**182**	**70**	**169**	**182**	**70**
7	**6**	**84**	**7**	**6**	**74**	**23**	**6**	**82**	**23**	**6**	**82**
0	0	3	0	0	3	0	8	3	0	8	3
1	15	0	0	15	0	2	17	2	2	17	2
0	0	9	0	0	9	0	0	15	0	0	15
0	1	0	0	1	0	0	2	0	0	2	0
0	0	2	0	0	2	0	0	3	0	0	3
3	0	0	3	0	0	3	0	0	3	0	0
2	3	7	2	3	7	3	4	9	3	4	9
0	0	2	0	0	2	0	0	2	0	0	2
0	0	1	0	0	1	0	0	2	0	0	2
0	0	2	0	0	2	0	0	2	0	0	2
6	**19**	**26**	**5**	**19**	**26**	**8**	**31**	**38**	**8**	**31**	**38**
2	**74**	**27**	**2**	**71**	**27**	**10**	**92**	**33**	**10**	**92**	**33**
0	**60**	**0**	**0**	**70**	**0**	**0**	**100**	**0**	**0**	**100**	**0**
0	5	0	0	5	0	0	6	0	0	6	0
6	44	+	5	45	+	21	46	4	21	54	4
0	12	2	0	12	2	0	12	2	0	12	4
0	0	3	0	0	3	0	0	3	0	0	3
0	3	0	0	2	0	0	4	0	0	4	0
6	**64**	**5**	**5**	**64**	**5**	**21**	**68**	**9**	**21**	**76**	**11**
0	**10**	**0**	**0**	**10**	**0**	**0**	**11**	**0**	**0**	**11**	**0**
248	**446**	**243**	**245**	**453**	**228**	**315**	**575**	**287**	**315**	**583**	**289**

TABLE 5:
WORLDWIDE NONCELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY FIBER EXCEPT OLEFIN
THOUSAND METRIC TONS

	ACTUAL PRODUCTION								
	1983			1984			1985		
FIBER & AREA	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC									
WEST EUROPE	0	833	833	1	866	867	1	925	926
EAST EUROPE	0	219	219	0	223	223	0	246	246
U.S.A.	0	304	304	0	304	304	0	286	286
OTHER AMERICAS	0	130	130	0	140	140	0	134	134
JAPAN	2	355	357	2	367	369	2	380	382
CHINA, PRC	0	68	68	0	69	69	0	73	73
OTHER ASIA	0	291	291	0	314	314	0	319	319
MIDDLE EAST, AFRICA & OCEANIA	0	19	19	0	12	12	0	16	16
TOTAL	**2**	**2219**	**2221**	**3**	**2295**	**2298**	**3**	**2379**	**2382**
NYLON+ARAMID [a]									
WEST EUROPE	485	126	611	504	144	648	532	152	684
EAST EUROPE	500	83	583	527	85	612	539	93	632
U.S.A.	677	420	1097	715	379	1094	687	375	1062
OTHER AMERICAS	189	24	213	211	24	235	228	20	248
JAPAN	271	18	289	288	19	307	291	24	315
CHINA, PRC	44	0	44	57	1	58	70	1	71
OTHER ASIA	307	4	311	344	3	347	367	5	372
MIDDLE EAST, AFRICA & OCEANIA	46	2	48	51	2	53	56	2	58
TOTAL	**2519**	**677**	**3196**	**2697**	**657**	**3354**	**2770**	**672**	**3442**
POLYESTER									
WEST EUROPE	386	452	838	431	485	916	451	493	944
EAST EUROPE	162	346	508	187	384	571	207	418	625
U.S.A.	617	991	1608	544	994	1538	599	917	1516
OTHER AMERICAS	202	188	390	225	222	447	226	222	448
JAPAN	310	320	630	327	320	647	329	323	652
CHINA, PRC	18	194	212	35	320	355	55	443	498
OTHER ASIA	581	666	1247	697	763	1460	842	858	1700
MIDDLE EAST, AFRICA & OCEANIA	42	60	102	47	72	119	55	73	128
TOTAL	**2318**	**3217**	**5535**	**2493**	**3560**	**6053**	**2764**	**3747**	**6511**
OTHER FIBERS EXCEPT OLEFIN [b]									
WEST EUROPE	6	9	15	6	9	15	6	9	15
EAST EUROPE	+	4	4	1	4	5	1	3	4
U.S.A.	+	+	+	+	+	+	+	+	+
OTHER AMERICAS	1	0	1	1	0	1	2	0	2
JAPAN	14	28	42	17	29	46	23	30	53
CHINA, PRC	7	55	62	7	70	77	10	80	90
OTHER ASIA	+	+	+	+	1	1	+	1	1
MIDDLE EAST, AFRICA & OCEANIA	0	0	0	0	0	0	0	0	0
TOTAL	**28**	**96**	**124**	**32**	**113**	**145**	**42**	**123**	**165**
TOTAL FIBERS ABOVE									
WEST EUROPE	877	1420	2297	942	1504	2446	990	1579	2569
EAST EUROPE	662	652	1314	715	696	1411	747	760	1507
U.S.A.	1294	1715	3009	1259	1677	2936	1286	1578	2864
OTHER AMERICAS	392	342	734	437	386	823	456	376	832
JAPAN	597	721	1318	634	735	1369	645	757	1402
CHINA, PRC	69	317	386	99	460	559	135	597	732
OTHER ASIA	888	961	1849	1041	1081	2122	1209	1183	2392
MIDDLE EAST, AFRICA & OCEANIA	88	81	169	98	86	184	111	91	202
WORLD TOTAL	**4867**	**6209**	**11076**	**5225**	**6625**	**11850**	**5579**	**6921**	**12500**

Y	Yarn+monofilaments.
S	Staple+tow+fiberfill.
+	Nominal quantities.
a.	U.S.A. nylon producing capacity data do not include aramid.
b.	Other fibers are alginate, azlon, spandex or elastomer, saran, TFE-fluorocarbon, vinal and vinyon. U.S.A. production data do not include spandex.
c.	Based on 1987 production and an average March 1987 and March 1988 producing capacity. Refer to June 1987 ***Textile Organon*** for March 1987 producing capacity.

The regional totals here are the same as those on pages 100 - 103.

ACTUAL PRODUCTION						PRODUCING CAPACITY						% UTILIZATION[c]	
1986			1987			3/1988			12/1989				
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S
1	934	935	1	942	943	1	1064	1065	1	1064	1065	100.0	88.9
0	259	259	0	277	277	0	352	352	0	422	422	0	77.6
0	279	279	0	268	268	0	289	289	0	291	291	0	92.1
0	154	154	0	181	181	0	211	211	0	211	211	0	88.1
3	394	397	3	404	407	6	438	444	6	438	444	50.0	93.6
0	74	74	0	75	75	0	117	117	0	161	161	0	63.3
0	328	328	0	343	343	0	393	393	0	453	453	0	83.9
0	17	17	0	17	17	0	36	36	0	52	52	0	53.1
4	**2439**	**2443**	**4**	**2507**	**2511**	**7**	**2900**	**2907**	**7**	**3092**	**3099**	**57.1**	**86.3**
517	140	657	517	144	661	662	195	857	680	195	875	78.3	74.2
550	94	644	566	95	661	648	120	768	683	120	803	87.3	81.5
728	412	1140	770	450	1220	836	513	1349	898	530	1428	91.9	88.8
225	25	250	217	23	240	376	46	422	383	46	429	59.6	51.7
260	19	279	262	17	279	328	27	355	328	27	355	79.6	60.7
74	1	75	79	1	80	90	5	95	110	5	115	87.8	20.0
387	4	391	426	6	432	569	12	581	608	18	626	76.5	66.7
59	2	61	62	2	64	109	3	112	112	3	115	56.6	66.7
2800	**697**	**3497**	**2899**	**738**	**3637**	**3618**	**921**	**4539**	**3802**	**944**	**4746**	**80.6**	**81.4**
446	501	947	451	509	960	584	609	1193	604	588	1192	78.3	84.1
239	446	685	262	492	754	337	660	997	337	660	997	75.8	74.7
532	968	1500	535	1071	1606	601	1154	1755	610	1187	1797	87.7	94.5
231	228	459	250	239	489	326	311	637	339	341	680	75.3	78.1
322	310	632	323	283	606	460	383	843	460	383	843	72.0	76.6
123	456	579	180	500	680	201	563	764	237	654	891	89.6	82.4
966	1013	1979	1099	1135	2234	1270	1372	2642	1664	1635	3299	85.4	83.4
51	80	131	53	82	135	88	131	219	88	154	242	59.6	67.8
2910	**4002**	**6912**	**3153**	**4311**	**7464**	**3867**	**5183**	**9050**	**4339**	**5602**	**9941**	**82.1**	**83.5**
5	9	14	5	9	14	8	12	20	8	12	20	62.5	75.0
1	3	4	1	3	4	1	8	9	1	8	9	100.0	37.5
+	+	+	+	+	+	14	0	14	14	0	14	0	0
2	0	2	2	0	2	2	0	2	2	0	2	100.0	0
20	27	47	21	28	49	30	99	129	30	99	129	59.2	27.7
10	63	73	10	65	75	15	75	90	15	75	90	66.7	86.7
+	1	1	0	2	2	1	0	1	1	0	1	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	**103**	**141**	**39**	**107**	**146**	**71**	**194**	**265**	**71**	**194**	**265**	**51.3**	**54.6**
969	1584	2553	974	1604	2578	1255	1880	3135	1293	1859	3152	78.2	85.7
790	802	1592	829	867	1696	986	1140	2126	1021	1210	2231	83.4	76.1
1260	1659	2919	1305	1789	3094	1451	1956	3407	1522	2008	3530	89.3	92.7
458	407	865	469	443	912	704	568	1272	724	598	1322	67.2	79.7
605	750	1355	609	732	1341	824	947	1771	824	947	1771	74.4	78.7
207	594	801	269	641	910	306	760	1066	362	895	1257	87.9	79.6
1353	1346	2699	1525	1486	3011	1840	1777	3617	2273	2106	4379	82.7	83.5
110	99	209	115	101	216	197	170	367	200	209	409	57.9	64.7
5752	**7241**	**12993**	**6095**	**7663**	**13758**	**7563**	**9198**	**16761**	**8219**	**9832**	**18051**	**81.1**	**83.6**

TABLE 6:
WORLDWIDE GLASS FIBER PRODUCTION & PRODUCING CAPACITY
THOUSAND METRIC TONS

COUNTRY	PRODUCTION					CAPACITY	
	1983	1984	1985	1986	1987	3/88	12/89
WEST EUROPE }	290	300	320	364	407	*415*	*450*
EAST EUROPE[a] }						*100*	*100*
U.S.A.	530	632	610	630	725	*776*	*793*
OTHER AMERICIAS	37	39	32	35	50	*70*	*75*
JAPAN	206	249	273	240	261	*315*	*330*
MIDDLE EAST, AFRICA & OCEANIA[b]	14	14	28	30	35	*40*	*65*
TOTAL ABOVE	**1077**	**1234**	**1263**	**1299**	**1478**	***1716***	***1813***
CHINA P.R.C.	30	40	50	50	55	*95*	*100*
U.S.S.R.	65	75	85	100	110	*185*	*200*

Glass fiber is defined on page114 of this issue. The glass fiber producing capacity, is based on March 1988 and December 1989 annual projections.

a. The data for East Europe do not include estimates for the U.S.S.R.

b. The Other Asia, Africa & Oceania countries are Australia, India and South Africa.

TABLE 7:
ESTIMATED WORLDWIDE CIGARETTE TOW PRODUCTION
THOUSAND METRIC TONS

AREA	1983	1984	1985	1986	1987
EUROPE[a]	80	80	83	104	107
U.S.A. }	211	187	210	216	247
OTHER AMERICAS[b] }					
ASIA[c]	43	47	44	42	46
WORLD TOTAL	**334**	**314**	**337**	**362**	**400**

a. Belgium, Germany, Fed. Rep., U.S.S.R. & United Kingdom.

b. Brazil, Canada, Colombia, Mexico & Venezuela.

c. Japan and Korea, Rep. of.

TABLE 8:
WORLDWIDE OLEFIN FIBER PRODUCTION
THOUSAND METRIC TONS

COUNTRY	1983	1984	1985	1986	1987
WEST EUROPE					
AUSTRIA	20	21	24	26	27
BENELUX	75	97	120	141	150
DENMARK	14	14	25	26	28
FINLAND	4	14	24	24	18
FRANCE	29	29	50	55	55
GREECE/CYPRUS	10	11	14	15	16
GERMANY, FED. REP.	61	81	113	117	125
IRELAND	9	9	9	9	10
ITALY	67	91	127	130	130
NORWAY	5	4	4	4	5
PORTUGAL	39	39	40	40	41
SPAIN	36	37	37	41	42
SWEDEN	4	4	6	6	6
SWITZERLAND	4	8	14	17	18
TURKEY	6	6	6	6	7
UNITED KINGDOM	80	80	95	110	116
TOTAL WEST EUROPE	**463**	**545**	**708**	**767**	**794**
EAST EUROPE					
CZECHOSLOVAKIA	12	12	12	12	12
HUNGARY	16	16	17	17	17
POLAND	15	16	16	17	17
U.S.S.R.	18	20	22	24	24
U.S.A.					
YARN+MONOFIL	168	175	192	213	224
STAPLE	86	113	137	152	164
FILM FIBER	149	154	233	263	299
OTHER AMERICAS					
ARGENTINA	12	12	13	13	13
BRAZIL	36	39	39	40	40
CANADA	32	30	32	33	34
CHILE	1	1	1	1	1
EL SALVADOR }	3	3	3	3	3
GUATEMALA }					
HONDURAS }					
MEXICO	26	26	26	27	27
NICARAGUA	1	1	1	1	1
PERU	6	6	6	7	7
URUGUAY	2	2	2	2	2
JAPAN					
YARN+MONOFIL	14	14	14	11	14
STAPLE	29	32	35	37	37
FILM FIBER	NA	NA	NA	NA	NA
OTHER ASIA					
KOREA, REP. OF	1	1	1	0	0
PHILIPPINES	3	3	3	3	3
TAIWAN	60	63	71	77	78
MIDDLE EAST, AFRICA & OCEANIA					
AUSTRALIA	21	22	23	25	26
SOUTH AFRICA	5	5	5	5	5
OTHER	1	1	1	1	1

The olefin data shown include the "official" country data published by a government, an association or other statistical agency as well as an estimate of the olefin fiber, mainly slit and split film fiber, believed to have been produced in the country. For example: although U.S. olefin production data include yarn, monofil, staple, film fiber, and spunbonded polypropylene, published Italian and Japanese olefin data show the production of yarn+monofilaments and staple+tow but no data on production of film fiber, such as that used in sacks, fishing nets, and carpet backing. Estimates were made in the latter example.

Due to the inconsistencies in olefin production reporting, we have made no attempt to show a worldwide total.

TABLE 9:
NUMBER OF MAN-MADE FIBER PRODUCING PLANTS (EXCEPT OLEFIN)

	CELLULOSIC		NONCELLULOSIC						
COUNTRY & REGION	**ACETATE[a]**	**RAYON**	**ACRYLIC[b]**	**NYLON[c]**	**POLY-ESTER**	**OTHER[d]**	**TOTAL**	**GLASS FIBER**	**GRAND TOTAL**
WESTERN EUROPE									
AUSTRIA		3			1	2	3		6
BELGIUM/LUXEMBOURG	1	1		3	1		4	2	8
FINLAND		1		1			1	1	3
FRANCE		2	1	8	3	1	13	2	17
GERMANY, FED. REP.	1	4	3	11	12	4	30	2	37
GREECE		1	1	2	3		6		7
IRELAND			1	1	2		4		4
ITALY/MALTA	2	2	5	17	9	2	33	2	39
NETHERLANDS		1		1	1	2	4	1	6
NORWAY								1	1
PORTUGAL		2	1	2	1		4	1	7
SPAIN	1	2	2	7	6		15	1	19
SWEDEN		1						1	2
SWITZERLAND				5	3		8		8
TURKEY		1	2	4	8		14	1	16
UNITED KINGDOM	2	1	2	5	6	4	17	5	25
TOTAL WESTERN EUROPE	**7**	**22**	**18**	**67**	**56**	**15**	**156**	**20**	**205**
EASTERN EUROPE									
ALBANIA			1		1		2		2
BULGARIA		1	1	1	1		3		4
CZECHOSLOVAKIA		6		3	2		5	2	13
GERMANY, DEM. REP.		8	2	3	2	1	8	1	17
HUNGARY		1	1	1			2		3
POLAND		5	1	1	2	2	6	2	13
ROMANIA		3	1	1	4		6		9
YUGOSLAVIA		2	1	2	5		8	1	11
TOTAL EASTERN EUROPE		**26**	**8**	**12**	**17**	**3**	**40**	**6**	**72**
U.S.A.	**4**	**4**	**5**	**34**	**34**	**8**	**81**	**17**	**106**
OTHER AMERICAS									
ARGENTINA	1	1	1	7	5	1	14	1	17
BOLIVA			1		1		2		2
BRAZIL		3	2	17	12	1	32	1	36
CANADA	1	1		3	2	1	6	1	9
CHILE		1		2	3		5		6
COLOMBIA				2	3		5		5
COSTA RICA					1		1		1
CUBA		1							1
ECUADOR					3		3		3
GUATEMALA				1			1		1
MEXICO	1	1	3	9	9	2	23	1	26
PERU	1		1	4	4		9		10
URUGUAY	1			3	2		5		6
VENEZUELA	1			2	4	1	7		8
TOTAL OTHER AMERICAS	**6**	**6**	**8**	**50**	**49**	**6**	**113**	**4**	**131**
JAPAN	**2**	**14**	**7**	**12**	**15**	**18**	**52**	**13**	**81**
OTHER ASIA									
BANGLADESH		2		1			1		3
INDIA	1	12	3	9	15		27		40
INDONESIA		2		5	9		14		16
KOREA, REP. OF	1	1	2	5	10	1	18		20
MALAYSIA			2		3		5		5
PAKISTAN	1			3	9		12		13
PHILIPPINES		1		2	2		4		5
SRI LANKA				1			1		1
TAIWAN		2	3	14	17		34		36
THAILAND		1		3	4		7		8
TOTAL OTHER ASIA	**3**	**21**	**10**	**43**	**69**	**1**	**123**		**147**
MIDDLE EAST, AFRICA & OCEANIA									
AUSTRALIA				3	2	1	6	1	7
EGYPT		2		1	2		3		5
IRAN			1	2	1		4		4
IRAQ		1							1
ISRAEL			1	1			2		2
KENYA				1	5		6		6
NIGERIA					1		1		1
SOUTH AFRICA				1	4		5		5
TANZANIA					1		1		1
TOTAL MIDDLE EAST, AFRICA & OCEANIA		**3**	**2**	**9**	**16**	**1**	**28**	**1**	**32**
WORLD TOTAL*	**22**	**98**	**58**	**227**	**258**	**52**	**593**	**61**	**774**

Planned facilities indicated by an asterick (*) in our listing of worldwide producers are not included in the above table.

* Data for China, PRC, North Korea & U.S.S.R. are not included here. The following plants are listed in the directory:

	Cellulosic	Acrylic	Nylon	Polyester	Other	Glass Fiber
China, PRC	9	9	12	20	8	3
U.S.S.R.	19	3	12	4	1	11

a. Acetate includes triacetate.
b. Acrylic includes modacrylic.
c. Nylon excludes aramid.
d. Other includes 20 spandex, 5 saran, 5 vinyon, 4 aramid, 4 vinal, 3 biconstituent, 3 fluorocarbon, and 1 each of azlon, cupro, PBI, polyacrylate, polycarbonate, polychlal, polyiossamide and promix.

1988 WORLDWIDE DIRECTORY OF MAN-MADE FIBER PRODUCERS

NOTES & DEFINITIONS

This directory of producers lists each country separately and is divided into the following categories:

(1) Cellulosic plus Noncellulosic fibers
(2) Olefin fiber
(3) Glass fiber

The locality shown represents a plant site.

The generic fiber names used in this survey are those established by the U.S. Federal Trade Commission (FTC). The *italicized* words are trademarks. All other fiber names are generic and appear in regular type.

- ● Indicates a company producing olefin fiber as well as other man-made fiber(s). For example, Mitsubishi Rayon Co. produces olefin fiber in Japan as well as acrylic and polyester. The acrylic and polyester entries for this company are in one section and the olefin entry is shown in the Olefin fiber section.
- * Indicates a new plant, in the planning stage or under construction, or a new facility for producing a new product at an existing plant. Such facilities are not expected to be operable until 1989 or later.

Yarn means filament yarn.

Monofil means an extruded monofilament and may be either a round or rectangular (ribbon) cross-section. Monofilaments for bristles are excluded.

Film includes **Slit**: tape produced by slitting an already attenuated wide sheet of olefin film; and **Split:** fibrillated slit film.

Not Included in this survey is the slit film used for decorative or tying ribbon and such.

Captive means that most or all of the fiber produced is consumed by the company in a vertical operation.

GENERIC NAMES & TRADEMARKS

The following are generic names, in bold type, and a brief description of the fibers covered by each name is shown in regular type.

GLASS FIBER

This fiber is made in two primary forms: continuous strand and staple sliver. Continuous strand is drawn fiber (i.e., from a textile-type bushing), while staple sliver, which is produced in relatively small amounts, is a blown fiber.

Glass fiber is produced and sold as filament yarn, strand, roving, mat, chopped strand, milled fiber and staple yarn & sliver. In addition, there are two primary uses for glass fiber: Textile, used by textile mills in conventional constructions (e.g., drapery and tire cord) or Non-Textile, used for nonconventional constructions (e.g., reinforced plastics and roofing shingles).

For additional information, see the definitions on page 250 of the November 1987 ***Textile Organon***.

CELLULOSIC (ARTIFICIAL) FIBERS

Acetate: Cellulose acetate. Cigarette filtration tow is excluded.

Triacetate: Cellulose acetate, wherein not less than 92% of the hydroxyl groups are acetylated.

Rayon: Regenerated cellulose, including substitutions for not more than15% of the hydrogens of the hydroxyl groups. Includes high wet modulus fiber.

Cupra: Cuprammonium rayon.

The viscose rayon yarns are identified as **Ind** (industrial or high tenacity yarn) and **reg** (regular or textile yarn).

NONCELLULOSIC (SYNTHETIC) FIBERS

Acrylic: At least 85% acrylonitrile by weight.

Modacrylic: 35% to 84% acrylonitrile by weight, except when it qualifies as rubber.

Azlon: Regenerated natural protein.

Nylon: A long-chain synthetic polyamide in which less than 85% of the amide linkages are attached directly to two aromatic rings. The types are identified as 6, 66, etc. Where a company produces both type 6 and 66, the designation 6/66 is used.

Aramid: A long-chain synthetic polyamide in which at least 85% of the amide linkages are attached directly to two aromatic rings.

Olefin: At least 85% ethylene, propylene or other olefin units by weight, except amorphous (noncrystalline) polyolefins qualifying as rubber. **E** means Polyethylene and **P** means Polypropylene. Also see adjoining notes on olefin fiber.

Polyester: At least 85% by weight of an ester of a substituted aromatic carboxylic acid, including but not restricted to substituted terephthalate units, and parasubstituted hydroxybenzoate units.

Saran: At least 80% vinylidene chloride by weight.

Spandex: At least 85% of segmented polyurethane.

Vinal: At least 50% by weight vinyl alcohol and wherein the vinyl alcohol plus acetal units are at least 85% by weight.

Vinyon: At least 85% vinyl chloride by weight.

Other man-made fibers included in this survey, but not listed by the FTC, are **Polycarbonate** (U.S.A.), **Polychlal** (Japan), **Promix** (Japan) and **TFE-&FEP-fluorocarbon** (Fluoro)(Japan, U.S.A. & U.S.S.R.).

Not covered in this survey are fibers which would fall under the FTC's generic designations of rubber, lastrile, metallic and novoloid. Fibers falling under the FTC designations of anidex and nytril are no longer produced.

Carbon fibers are not included in this survey.

International Standard #2076, "Generic Names of Man-Made Fibres," as established by the International Organization for Standardization, lists some 23 names, of which the following are similar to the FTC designations: cupro, viscose, acetate, triacetate, acrylic, modacrylic, nylon or polyamide, polyester and glass. The IOS also lists modal (regenerated cellulose obtained by processes giving a high tenacity and a high wet modulus), alginate (metallic salts of alginic acid), chlorofibre (similar to the FTC's saran and vinyon), elastane (similar to the FTC's spandex), elastodiene, fluorofibre, polycarbamide, polyethylene & polypropylene (similar to the FTC's olefin), polyurethane, trivinyl and vinylal (similar to the FTC's vinal).

ALBANIA

(Producer not yet known)

Acrylic	(staple)
Polyester	(yarn & staple*)

ARGENTINA

COAFI S.A.

Polyester	Buenos Aires (yarn)

DUCILO S.A.I.C.

Nylon 66	Berazategui & Mercedes *Nylon Ducilo* (yarn)
Spandex	Mercedes (fused multifil or coalesced monofil)

HISISA ARGENTINA S.A.I.C.I.F.

Acrylic	Baradero *Cashmilon* (staple)

MANUFACTURAS DE FIBRAS SYNTETICAS (formerly Petroquimica Sudamericana)

Nylon 6	Olmos - Lapi (yarn)
Polyester	Olmos - Lapi (yarn & staple)

MITEXTIL S.A.

Nylon 6	Buenos Aires (yarn)

M. NAHMIAS S.A.C.I.

Polyester	Buenos Aires (yarn)

NICIEZA y TAVERNA HNOS. S.A.

Nylon 6	Chivilcoy *Grilon* (monofil)

RHODIA ARGENTINA QUIMICA e TEXTIL

Acetate	Quilmes (yarn)
Polyester	Quilmes *Tergal* (yarn)

SOCIEDAD NUEVAS INDUSTRIAS ARGENTINAS FIBRAS ARTIFICIALES S.A.I.C.F.I. (SNIAFA)

Nylon 6	Hernández-La Plata *Snialon* (yarn)
Rayon	Plátanos (reg yarn & staple)

SUDAMTEX S.A. TEXTIL SUDAMERICANA

Polyester	Azul *Acrocel* (staple)

VALENCIANA ARGENTINA S.A.

Nylon 6	Buenos Aires (yarn)

OLEFIN FIBER

AGAPOL S.A. (P yarn)

MANUFACTURA FORTI ARGENTINA S.A.C.I.A.F.I. Buenos Aires (P yarn & staple)

PANAMERICA DE PLASTICOS S.A.I.C. Olivos (P staple)

PETROQUIMICA Cuyo, Mondoza (P yarn)

TEXTILYUTE S.A.I.C. Isidro Casanova (P film)

VINISA S.A.I.C. Buenos Aires *Rafistal, Strofil* (E & P monofil)

ARGENTINA (continued)

GLASS FIBER

VIDRIERIA ARGENTINA S.A. (VASA) Llavallol *Texover*

AUSTRALIA

FIBREMAKERS LTD.

Biconstituent	Mulgrave, Victoria *Front Runner* (melded fabric)
Nylon 66	Bayswater, Victoria *Bri-Nylon* (yarn & monofil), Penrith, N.S.W. (tire cord)
Polyester	Bayswater *Terylene* (yarn, staple & tow)

UNITED CARPET MILLS PTY. LTD.

Nylon 6	Thomastown, Victoria *Unilon* (yarn)
Polyester	Thomastown (yarn)

In addition to the above, VILENE AUSTRALIA reportedly produces spunbonded products at Minto, N.S.W.; these are believed to be principally based on cellulosic fiber, but some polypropylene may be used.

OLEFIN FIBER

SARLON INDUSTRIES PTY. LTD Punchbowl, N.S.W. (E & P monofil & film)

OLEFIN FILM FIBER, only

A. ABRAHAMS & SONS PTY. LTD. Clayton, Victoria (*Koala, Polytex*)

AMOCO FABRICS & FIBERS COMPANY, PATCHOGUE PLYMOUTH DIVISION Liverpool, N.S.W. *Poly Bac, Propex*

CORDEX INDUSTRIES PTY. LTD. Gladesville, N.S.W.

GEO. KINNEAR & SONS PTY. LTD. Footscray, Victoria (*Emu*)

H. J. PENNO Adelaide, South Australia

TAPEX PTY. LTD. Sydney, N.S.W.

GLASS FIBER

ACI FIBREGLASS, A Unit of ACI Australia, Ltd. Dandenong, Victoria

AUSTRIA

AUSTRIA FASERWERKE G.m.b.H.

Polyester	Lenzing *Trevira* (staple)

CHEMIEFASER LENZING A.G.•

Fluoro	Lenzing (yarn & staple)
Rayon	Lenzing (staple)

AUSTRIA (continued)

GLANZSTOFF AUSTRIA G.m.b.H. (formerly Enka-Austria)
Rayon St. Pölten (ind & reg yarn)

LENZING A.G. •
Rayon Lenzing *Lenzing Viscose*
Lenzing *Modal* (staple)
Fluoro Lenzing *Lenzing PTFE* (yarn & staple)
Polyimid Lenzing* *P84* (yarn & staple)

OLEFIN FIBER

CHEMIE LINZ A.G. Linz *Asota, Linz-PP-Multifil, Linz-PP-Viles* (P yarn, staple & spunbonded)

LENZING A.G. Lenzing (P yarn)

M. TEUFELBERGER Wels

OLEFIN FILM FIBER, only

CHEMIEFASER LENZING A.G. Lenzing

SEUTTER Unter Eggendorf

BANGLADESH

ASHUGANJ PETROCHEMICAL COMPLEX
Acrylic Ashuganj* (staple)

BANGLADESH CHEMICAL INDUSTRIES
Rayon (staple)

KARNAPHULI RAYON AND CHEMICALS LIMITED
Rayon Chandraghona, Chittagong (reg yarn & staple)

PYLON INDUSTRIES LIMITED
Nylon 6 Fouzdarhat Industrial Estate, Chittagong *Pylon* (yarn)

BELGIUM

BAYER ANTWERPEN N.V.
Nylon 6 Antwerpen *Dorix* (staple)

BEAULIEU-NYLON S.A. •
Nylon 6 Kruishoutem, East Flanders (yarn & staple)

FABELTA NINOVE N.V.
Rayon Ninove, East Flanders (reg yarn)

FABELTA ZWIJNAARDE S.A.
Nylon 66 Zwijnaarde, East Flanders *Fabelnyl* (yarn)

HOECHST CELANESE
Acetate Lanaken, Limburg (yarn)
Triacetate Lanaken (yarn)

BELGIUM (continued)

OLEFIN FIBER

DELOTEX (P staple)

N.V. FIBRILO Zele, East Flanders (P staple & film)

S.A. LA LOKEROISE Lokeren, East Flanders *Alpha Carpet, Delta Carpet* (P yar[illegible] staple)

OSTEND S[illegible]RES & ROPEWORKS S.A. Ostend, West Flanders

POLYFIL N.[illegible] (Subsidiary of Beaulieu) Wielsbeke (P yarn)

ROGER VANDEN BERGHE N.V. Desselgem (P yarn)

T.T.C. POLYOLEFINS S.A. Overpelt, Limburg (P monofil)

OLEFIN FILM FIBER, only

N.V. JONCKVANSTEEN, Passendale

S.A. PHORMIUM, Zele, East Flanders

POLYTEXCO S.P.R.L., Beveren, Kortryk

S.A. U.C.O., Ledeberg, Gent

GLASS FIBER

N.V. BAYER S.A., Antwerpen

OWENS-CORNING FIBERGLAS EUROPE S.A. Battice, Liége *Fiberglas*

Cellulosic production and capacity data are combined with the Netherlands on pages 104 - 109. Noncellulosic production and capacity data are combined with the Netherlands and Luxembourg under "Benelux" on pages 100 - 101.

BOLIVIA

HILANDERIA DE ACRÍLICOS Y FIBRAS SINTÉTICAS "HILBO"
Acrylic La Paz

TEJEDURIAS PLANAS DE HILADOS DE FIBRAS ARTIFICIALES Y SINTÉTICAS "ESTATEX"
La Paz

TEJIDOS DE PUNTO "FENIX"
La Paz

TEXTURBOL TEXTURIZADORA BOLIVIANA
Polyester La Paz (yarn)

BRAZIL

ARTEPESCA - S.A. ARTIGOS DE PESCA DO NORDESTE •
Nylon 6 Igarassu, Pernambuco (monofil)

BRAZIL (continued)

BANYLSA TECELAGEM DO BRASIL S.A.

Nylon 6	Aratú, Bahia (yarn)
Polyester	Aratú *Fio Banylsa Poliester* (yarn)

CELBRAS INDÚSTRIAS QÚIMICAS E TÉXTEIS S/A

Polyester	Pocos de Caldas, Minas Gerais *Fortrel* (staple)

CIA. NITRO QÚIMICA BRASILEIRA

Rayon	São Miguel Paulista, São Paulo (reg yarn)

COBAFI - CIA. BAHIANA DE FIBRAS

Nylon 6	Camaçari, Bahia (yarn)
Polyester	Camaçari (yarn)

DE MILLUS S.A. INDUSTRIA E COMÉRCIO

Nylon 6	Rio de Janeiro *Demilon* (yarn)

DU PONT S.A. INDÚSTRIAS QÚIMICAS

Spandex	Paulinia, São Paulo *Lycra* (fused multifil)

EQUIPESCA - EQUIPAMENTOS DE PESCA S.A.

Nylon 6	Campinas, São Paulo (monofil)

FIBRA S.A.

Nylon 6	Americana & Osasco, São Paulo *Lilion* (yarn)
Polyester	São Paulo (yarn)
Rayon	Americana (reg yarn & staple)

FISIBA - FÍBRAS SINTÉTICAS DA BAHIA S.A.

Acrylic	Camaçari, Bahia *Triana* (staple)

HOECHST DO BRASIL QÚIMICA E FARMACÉUTICA S.A.

Polyester	Osasco *Trevira* (yarn & monofil)

INDUSTRIAS MATARAZZO DE FIBRAS SINTÉTICAS S.A.

Nylon 6	São José dos Campos, São Paulo (yarn)

MANAP - MANUFATURA NACIONAL DE PLÁSTICOS •

Nylon 6	Osasco, São Paulo *Caicara* (monofil)

MARCATTO S.A. IND. E COM. •

Nylon 6	Jaraguá do Sul, Santa Catarina (monofil)

MAZZAFERRO POLIMEROS E FIBRAS SINTÉTICAS LTDA.

Nylon 6	São Bernardo do Campo, São Paulo *Grilon, Trilon* (yarn & monofil)
Polyester	São Bernardo do Campo, São Paulo (monofil)

MONOFIL - CIA. INDUSTRIAL DE MONOFILAMENTOS •

Nylon 6	São Paulo, São Paulo (monofil)

NOVELSPUMA - ESPUMA DE NYLON S.A.

Nylon 6	São Paulo, São Paulo (yarn)

POLYENKA S.A.

Polyester	Americana, São Paulo *Diolen* (yarn)

BRAZIL (continued)

POLYNOR S.A. INDÚSTRIA E COMÉRCIO DE FIBRAS SINTETICAS DA PARÁIBA

Polyester	João Pessoa, Paraiba *Amilon, Polynor* (yarn & staple)

RHODIA S.A.

Acrylic	São José dos Campos, São Paulo *Crylor* (staple)
Nylon 66	Santo André *Dropnyl, Rhodianyl* (yarn & staple)
	São Bernardo do Campo, São Paulo *Celtral BCF* (yarn)
Polyester	Santo André *Dropgal-Tergal, Tergal* (yarn & staple)
	São José dos Campos *Bidim* (spunbonded)
	São Bernardo do Campo *Fortrel* (yarn)
Rayon	São José dos Campos (staple)

RHODIA NORDESTE S.A.

Polyester	Cabo, Pernambuco *Dropgal, Tergal* (staple)

SEARA IND. TÉXTIL LTDA. •

Nylon 6	Londrina, Paraná (monofil)

SPUMAR S.A. INDÚSTRIA E COMÉRCIO •

Nylon 6	São Paulo (yarn)

OLEFIN FIBER

ARTEPESCA - S.A. ARTIGOS DE PESCA DO NORDESTE Igarassu, Pernambuco (E & P monofil)

BRASIL VISCOSE S.A. Jundiapeba, São Paulo (P staple)

ETRÚRIA S.A. INDÚSTRIA DE FIBRAS E FIOS SINTÉTICOS Mairinque, São Paulo (P staple)

FADEMAC - FABRICA DE MATERIAIS DE CONSTR. S.A. Jacarei, São Paulo (P staple)

FITESA - FÍAÇAO TÉXTIL DE EMBALAGENS PLÁSTICAS S.A. Guaiba, Rio Grande do Sul (P staple) & Porto Alegre, Rio Grande do Sul (P film)

INYLBRA S.A. TAPETES E VELUDOS Diadema, São Paulo (P staple)

MANAP - MANUFATURA NACIONAL DE PLÁSTICOS Osasco, São Paulo (P monofil)

MARCATTO S.A. IND. E COM. Jaragua do Sul, Santa Catarina (E & P monofil)

MONOFIL - CIA. INDUSTRIAL DE MONOFILAMENTOS São Paulo, São Paulo (P monofil)

SEARA IND. TÉXTIL LTDA. Londrina, Paraná (E & P monofil)

SPUMAR S.A. INDÚSTRIA E COMÉRCIO São Paulo, *Fibrilene, Polylene, Polypian, Prolene* (P yarn, staple & film)

BRAZIL (continued)

TAPETELENE - INDÚSTRIA S.A. Pajucara/Maramguape Cearé (P staple)

TINTORIA S.A. - BENEFICIAMENTO DE FIO (P yarn)

OLEFIN FILM FIBER, only

BRASMEN TOL CACAPAVA S.A., Cacapava, São Paulo

CACIQUE DE EMBALAGENS S.A. INDÚSTRIA E COMÉRCIO, Londrina, Paraná

C.A.T.A. - CIA. AMAZONIA TÉXTIL DE ANIAGEM S.A., Belém, Pará

CIA. FAB. YOLANDA S.A., Récife, Pernambuco

CIA. JAUENSE INDUSTRIAL, Jau, São Paulo

CIA. UNÍAO MANUFATORA DE TECIDOS, Rio de Janeiro

DICOPLAST S.A. INDÚSTRIA E COMÉRCIO DE PLASTICOS, Presidente Prudente, São Paulo

EMPLA - EMBALAGENS PLÁSTICAS S.A., Rio de Janeiro

FIBRASA IND. E COM. DE FIOS E EMBALAGENS S.A., Espirito Santo

FIBROTEX TECELAGEM DE FIBRAS S.A., São Paulo

IMPLASA - INDÚSTRIA DE PLÁSTICOS ZANIOLO S.A., São José dos Pinhais, Paraná

INDÚSTRIA TÉXTIL TSUZUKI LTDA., Suzano, São Paulo

IPLAC DO BRASIL S.A. PLÁSTICOS, Fortaleza, Ceará

NOVOPLAST IND. E COM. DE PLÁSTICOS, Nova Odessa, São Paulo

PLABASA - PLÁSTICOS DA BÁHIA S.A., Salvador, Bahiá

PLASMINAS - PLÁSTICOS MINAS LTDA., Tres Pontas, Minas Gerais

PLÁSTICOS DO PARANÁ LTDA., Londrina, Paraná

PLÁSTICOS LINIL S.A., Récife, Pernambuco

PLÁSTICOS INDÚSTRIA DE EMBALAGENS LTDA., Campinas, São Paulo

QUALITAS IND. E COM. LTDA., São Paulo

SACOPLAST/PLANOSA - PLÁSTICOS DO NORDESTE S.A., Natal, Rio Grande do Norte

GLASS FIBER

OCFIBRAS Rio Claro, São Paulo *Fiberglas*

BULGARIA

KOMBINAT "DIMITAR DIMOV" •

Acrylic	Burgas *Bulana* (staple)
Nylon 6	Vidin *Vidlon* (yarn)
Polyester	Yambol *Yambolen* (yarn, staple & tow)

KOMBINAT "SVILOSA"

Rayon	Svishtov (reg yarn & staple)

OLEFIN FIBER

KOMABINAT "DIMITAR DIMOV" Yambol (P staple)

CANADA

BASF FIBRES INC.

Nylon 6	Arnprior, Ontario *Zefran* (yarn & staple)

CELANESE CANADA INC.

Acetate	Drummondville, Quebec (yarn)
Polyester	Millhaven, Ontario *Fortel* (yarn, staple, tow & fiberfill)

COURTAULDS (CANADA) LIMITED

Rayon	Cornwall, Ontario (staple)

DU PONT CANADA INC. •

Nylon 66	Kingston, Ontario *Antron, Cantrece, Du Pont* (yarn, staple & tow)
Polyester	Kingston *Dacron* (yarn)
Spandex	Maitland *Lycra* (fused multifil)

FIRESTONE TEXTILES CO.-A DIVISION OF FIRESTONE CANADA LTD.-LTEE

Nylon 6	Woodstock, Ontario (yarn & monofil)

OLEFIN FIBER

AMOCO FABRICS & FIBERS CO. Brantford & Hawkesbury, Ontario, St. Jean, Quebec *Protel* (P yarn, staple, E & P monofil & P film)

CALKO MILLS LTD. Rivière du Loup, Quebec (P monofil)

CANADA WESTERN CORDAGE CO., LTD. New Westminster, B.C. (P monofil)

DOON TWINES LTD. Kitchener, Ontario (P yarn, monofil & staple)

DU PONT CANADA INC. North Bay, Ontario (P film)

GUELPH TWINES LTD. Guelph, Ontario (P monofil & film)

NOVASTRAND St. John, New Brunswick (P monofil)

POLI-TWINE CORP. LTD. Belleville, Ontario & Saskatoon, Saskatchewan *Polytie, PolyTwine, Spiralok* (P monofil)

SCHLEGEL COMPANY CANADA Oakville (P monofil)

CANADA (continued)

STRUDEX FIBRES LTD., DIVISION OF KRAUS CARPET MILLS LTD. Waterloo (P yarn & staple - captive)

OLEFIN FILM FIBER, only

FIBERWORLD, LTD. Hawkesbury, Ontario

POLYMER INTERNATIONAL (N.S.) LTD. Truro, N.S.

GLASS FIBER

FIBERGLAS CANADA LIMITED Guelph, Ontario *Fiberglas*

CHILE

GOODYEAR DE CHILE, S.A.I.C.
Nylon 6 Maipú, Santiago (yarn & monofil)

INDUSTRIAS QUIMICAS GENERALES S.A.
Rayon Quillota, Valparaiso (ind yarn & staple)

LANERA AUSTRAL S.A.
Polyester Santiago (yarn, staple & tops)

MANUFACTURAS SUMAR S.A.
Nylon 6 El Pinar 172, Santiago *Crilobal* (yarn)
Polyester El Pinar 172 *Poligal* (yarn & staple)

QUIMICA INDUSTRIAL S.A.
Polyester Maipú, Santiago *Polycron* (staple & tops)

CHINA, PEOPLE'S REPUBLIC OF

Although reliable information on locations of man-made fiber plants in the People's Republic of China is not available, every effort has been made to make the following listing as complete as possible.

RAYON and/or ACETATE PLANTS reported at:
Amoy, Antung, Canton, Foshan, Kirin, Nanchang, Nanking, Paoting and Shanghai.
NYLON PLANTS reported at:
Beijing; Changsha*, Hsinhsiang, Paoting Province; Jinzhou; Liaoyang; Pingdings; Shanghai; Shanyi; Sian; Sichuan; Sining; Tianjin and Zhenjiang.
POLYESTER PLANTS reported at:
Beijing; Changzhou, Jiangsu Province; Fangshan, Beijing Province; Guangdong Province; Guangzhou, Canton Province; Hangchow; Heilongjiang; Henan*; Jinshan, Shanghai Province; Liaoyang; Nantong; Nanjing, Jiangsu Province; Shanghai; Sichuan; Taiyuan; Tianjin; Tientsin; Xiamen, Funjion Province; Xinhu; Yizheng and Zhenjiang.
ACRYLIC PLANTS reported at:
Anquing, Anhui Province; Chenchiang, Harbin Province; Daquing; Fushun; Lanzhou; Luda; Maoming; Qinhuangdao; Shanghai and Zibo.
NONCELLULOSIC PLANTS reported at:
Beijing (vinal); Canton (vinyon); Chunking (vinyon); Foochow (vinyon); Lanzhou (olefin & vinal); Shanghai (vinyon); Shengli (vinyon) and Tientsin (vinyon).

The following three plants have been reported as producing glass fiber: Shanghai Glass Fiber Plant, Shanghai Tungfanghung Glass Fiber Plant and Tientsin Glass Fiber Plant.

COLOMBIA

COLTEFIBRAS S.A.
Polyester Igatui, Antioquia* (yarn & staple)

ENKA DE COLOMBIA S.A.
Nylon 6 Girardota, Antioquia *Enkalon* (yarn)
Polyester Girardota *Terlenka* (yarn & staple)

FABRICA DE HILAZAS VANYLON S.A.
Nylon 6 Barranquilla, Atlántico *Vanylon* (yarn & monofil)

POLIMEROS COLOMBIANOS S.A.
Polyester Medellin, Antioquia *Primal* (yarn, staple, tow & tops)

ZYLETTE (LAFAYETTE)
Polyester Bogotá (yarn)

OLEFIN FILM FIBER, only

COMPANIA NACIONAL DE EMPAQUES S.A. Medellin

PLASTICOS DE MAGDELENA LTDA. Santa Marta

POLYMER DE COLOMBIA S.A. Cartagena

COSTA RICA

OLYMPIC FIBERS, S.A.
Polyester San Antonio de Belén (yarn)

CUBA

INDUSTRIAS CONSOLIDADAS DE MATANZAS, S.A.
Rayon Matanzas (ind & reg yarn & staple)

CYPRUS

OLEFIN FIBER

LORDOS POLYSAC (LIMASSOL) LIMITED Limassol (P film)

CZECHOSLOVAKIA

CHEMICKÉ ZÁVODY JURAJA DIMITROVA, N.P.* (GEORGE DIMITROV CHEMICAL WORKS, NATIONAL CORP.)
Rayon Bratislava, Slovakia (reg yarn & staple)

CHEMLON, N.P. (CHEMLON, NATIONAL CORPORATION)
Nylon 6 Humenné, Slovakia *Chemlon* (yarn)

CHEMOPETROL
Rayon Neratovice (yarn)

CZECHOSLOVAKIA (continued)

CHEMOSVIT, N.P. (CHEMOSVIT, NATIONAL CORPORATION) *

Nylon 6	Svit, Slovakia *Svitontex* (yarn & staple)
Rayon	Svit (reg yarn)

SEVEROCESKÉ CHEMICKÉ ZÁVODY, N.P. (NORTH BOHEMIAN CHEMICAL WORKS, NATIONAL CORP.)

Rayon	Lovosice, Bohemia (ind yarn)

SILON, N.P. (SILON, NATIONAL CORPORATION)

Nylon 6	Planá nad Luznici, Bohemia *Silon* (yarn & monofil)
Polyester	Planá nad Luznici *Tesil, Tevyro, Velana* (staple, tow & fiberfill)

SLOVENSKÝ HODVÁB, N.P. (SLOVAKIAN FILAMENT YARN, NATIONAL CORPORATION)

Polyester	Senica nad Myjavou, Slovakia *Slotera* (yarn)
Rayon	Senica nad Myjavou (reg yarn)

SPOLANA, N.P. (SPOLANA, NATIONAL CORPORATION)

Rayon	Neratovice, Bohemia (staple)

OLEFIN FIBER

CHEMICKÉ ZÁVODY JURAJA DIMITROVA, N.P. Bratislava *Istrona, Labren, Nobelex* (P yarn & staple)

CHEMOSVIT, N.P. Svit *Prolen, Texizol* (P yarn & spunbonded)

JUTA, N.P. Úpice, Bohemia (P spunbonded)

OLEFIN FILM FIBER, only

JUTA, N.P. Adamov, Moravia and Bernartice u Trutnova, Dvur Králové, Jilemnice & Úpice, Bohemia

POVAZSKE CHEMICKÉ ZAVODY, N.P. Zilina, Slovakia

TECHNOLEN, N.P. Lomnice nad Popelkou, Bohemia

GLASS FIBER

SKLOPLAST, N.P. (SKLOPLAST, NATIONAL CORPORATION) Trnava, Slovakia (yarn, chopped strand & mat)

VERTEX, N.P. (VERTEX, NATIONAL CORPORATION) Litomysl, Bohemia (yarn, roving, mat & staple yarn)

DENMARK

OLEFIN FIBER

A/S FIBERTEX Aalborg (P staple)

ESBJERG TOVVAERKSFABRIK A/S Esbjerg *Westflex* (E & P monofil & film; P staple)

DENMARK (continued)

JACOB HOLM VARDE A/S Varde *Danaklon, IHS* (E & P staple & film), *Krenit* (P reinforcing fiber)

OLEFIN FILM FIBER, only

R.F.W. PLAST-INDUSTRI A/S Vejle

ROBLON A/S Frederikshavn

EQUADOR

ECUATORIANA DE TEJIDOS DE PUNTA

Polyester	Punta (yarn)

ENKADOR S.A.

Polyester	Sangolqui, Pichincha (yarn)

FIBRATEX S.A.

Polyester	Guayaquil, Guayas (yarn)

EGYPT

ESTABLISSEMENTS INDUSTRIELS POUR LA SOIE ET LE COTON S.A.A. (E.S.C.O.)

Rayon	Cairo (reg yarn)

MISR AL-AMIRIYA INDUSTRIAL FIBRE CO.

Polyester	Amiriya (yarn* & staple)

SOCIETE MISR POUR LA RAYONNE S.A.A. (MISR RAYON CO.)

Nylon 6	Kafr-el-Dawar *Misrnylon* (yarn), *Misrnylon* (staple)
Polyester	Kafr-el-Dawar *Polymisr* (yarn)
Rayon	Kafr-el-Dawar (reg yarn & staple)

EL SALVADOR

OLEFIN FIBER

FILAMENTOS Y PERFILES, S.A. (FILPERSA) San Salvador *Duraplen* (E & P monofil)

SALVAPLASTIC, S.A. San Salvador (P monofil

FINLAND

FINEFIBRE OY

Nylon 66	Tornio (yarn)

KEMIRA OY SATERI

Rayon	Valkeakoski (staple)

FINLAND (continued)

OLEFIN FILM FIBER, only

MANILLA OY Turku

PIIPPO OY Lempäälä

GLASS FIBER

A. AHLSTROM OY GLASSFIBRE Karhula *Kuitulasi* (roving & mat)

FRANCE

CELLATEX (a subsidiary of Rhône-Poulenc-Textile)

Rayon	Givet, Ardennes; Grenoble, Isère (reg yarn)

COURTAULDS S.A.

Acrylic	Pont du Leu, Coquelles, Pas-de-Calais *Courtelle* (staple)
Rayon	Pont du Leu (staple)

NYSAM S.A.

Nylon 6	St. Quentin, Aisne *Lilion* (yarn)

RHÔNE-POULENC-FIBRES (a subsidiary of Rhône-Poulenc-Textile)

Nylon 66	Albi, Tarn; St. Laurent-Blangy, Pas-de-Calais, St. Quentin, Aisne & Valance, Drôme *Nylfrance* (yarn & staple)
Polyester	Gauchy, Aisne & Valence *Bidim* (spunbonded), *Tergal* (yarn & staple)

RHOVYL (a subsidiary of Rhône-Poulenc-Textile)

Vinyon	Tronville-en-Barrois, Meuse *Clévyl, Rhovyl, Thermovyl* (yarn & staple)

SOCIETE CHOMARAT

Nylon 6	Mariac (yarn - captive)

OLEFIN FIBER

PLASTIQUE DE ROUBAIX Roubaix (P film & staple)

SODOCA FABRICATION DE NONTISSES SYNTHETIQUES S.A.R.L. Neuf Brisach, Haut-Rhin (P spunbonded)

OLEFIN FILM FIBER, only

ETS. AMMANN & CIE. Saint-Louis

ETS. BATAILLE Rosendael

BIHR FRERES S.A. Xertigny

BOUSSAC SAINT FRERES S.A. Flixecourt

SEINE & LYS Paris

FRANCE (continued)

GLASS FIBER

OWENS-CORNING FIBERGLAS FRANCE S.A. L'Ardoise, Gard *Fiberglas*

VETROTEX SAINT-GOBAIN Chambéry, Savoie-Fils et Fibres de Renforcement *Vetrotex*

GERMAN DEMOCRATIC REPUBLIC
DEUTSCHE DEMOKRATISCHE REPUBLIK (EASTERN)

(Those facilities indicated by # are part of the trust VEB Chemiefaserkombinat Schwarza "Wilhelm Pieck".)

CHEMIEFASERWERK "FRIEDRICH ENGELS" #

Acrylic	Premnitz, Krs. Rathenow *Wolpryla* (staple)
Nylon 6	Premnitz *Dederon* (staple)
Polyester	Premnitz *Grisuten* (staple)
Rayon	Premnitz (reg yarn)

CHEMIEFASERWERK "WILHELM-PIECK-STADT" GUBEN #

Nylon 6	Guben *Dederon* (yarn & monofil)
Polyester	Guben *Grisuten* (yarn)

KUNSTSEIDENWERK "CLARA ZETKIN, ELSTERBERG" #

Rayon	Elsterberg, Krs. Greiz (reg yarn)

SACHSISCHES KUNSTSEIDENWERK "SIEGFRIED RADEL" #

Polyester	Pirna* (yarn)
Rayon	Pirna (ind, reg & cupra yarn)

SACHSISCHE ZELLWOLLE #

Rayon	Plauen (staple)

SPINNSTOFFWERK "OTTO BUCHWITZ" #

Rayon	Glauchau (staple)

VEB CHEMIEFASERKOMBINAT SCHWARZA "WILHELM PIECK"

Nylon 6	Schwarza, Kr. Rudolstadt *Dederon* (yarn)
Rayon	Schwarza (staple)

VEB FILMFABRIK FOTOCHEMISCHES KOMBINAT

Acrylic	Wolfen, Krs. Bitterfeld *Wolpryla* (staple)
Rayon	Wolfen (ind yarn & staple)
Vinyon	Wolfen *Piviacid* (staple)

ZELLSTOFF-UND ZELLWOLLWERKE WITTENBERGE #

Rayon	Wittenberge (staple)

GLASS FIBER

VEB GLASSEIDENWERK *Oschatz Glasseidengewebe, Glasseiden-Roving, Glasseiden-Stapelbindermatten, Glasseiden-Twist, Glasseiden-Zwirn, Roving-Gewebe*

GERMANY, FEDERAL REPUBLIC OF
BUNDESREPUBLIK DEUTSCHLAND (WESTERN)

BAYER A.G.

Acrylic	Dormagen *Bayer-Textilfaser Dralon* (yarn & staple)
Nylon 6	Dormagen *Perlon-Draht* (monofil)
Spandex	Dormagen *Bayer-Textilfaser Dorlastan* (fused multifil)

BOLTA WERKE G.m.b.H.

Saran	Nürnberg *Bolta* (monofil)

DEUTSCHE ICI G.m.b.H.

Nylon 66	Ostringen *Timbrelle* (yarn & staple)
Polyester	Ostringen *Terylene* (yarn)

DU PONT DE NEMOURS (DEUTSCHLAND) G.m.b.H.

Nylon 66	Uentrop, Kreis Unna (yarn & staple)
Polyester	Uentrop *Dacron* (staple, tow & fiberfill)

FIBERS AND POLYMERS DIVISION

Nylon 6/66	Obernburg *Enka Nylon* (yarn), *Enka Perlon* (yarn)
Polyester	Oberbruch & Obernburg *Diolen* (yarn)
Rayon	Kelsterbach, Oberbruch & Obernburg (ind & reg yarn)

E. HAHL KG •

Nylon 6	Munderkingen (staple)

FASERWERKE LINGEN G.m.b.H.

Acrylic	Lingen *Bayer-Texilfasern Dralon* (staple)

HOECHST A.G.

Acrylic	Kelheim/Donau *Dolan* (staple)
Polyester	Bad Hersfeld, Hessen & Bobingen/Augsburg-land *Trevira* (yarn, staple & spunbonded), *Trevira-Draht* (monofil)
Rayon	Kelheim/Donau (staple)

KUNERT

Nylon 66	Deggendorf (yarn)
Polyester	Deggendorf (yarn)

LUTRAVIL SPINNVLIES •

Nylon 6	Kaiserslautern *Lutrabond* (spunbonded)
Polyester	Kaiserslautern *Lutradur* (spunbonded)

NORDDEUTSCHE FASERWERKE G.m.b.H.

Nylon 6/66	Neumünster *SIKS NYLON* (yarn), *SIKS PERLON* (yarn & staple)
Polyester	Neumünster *Avitron* (yarn)

PHOENIX GUMMIWERK A.G.

Saran	Hamburg/Harburg *Harlan* (monofil)

HEINRICH REINHOLD KG •

Nylon 6	Selbitz, Bayern (staple)

GERMANY, FEDERAL REPUBLIC OF (continued)
BUNDESREPUBLIK DEUTSCHLAND (WESTERN)

RHODIA A.G.

Acetate	Freiburg/Br. *RHIAKABEL* (tow)
Nylon 66	Freiburg/Br. & Rottweil a. N/Württ. *RHOA-fil Nyltest, RHOA-Spinnfaser, RHOA-tex HELANCA* (yarn & staple)
Polyester	Freiburg/Br. *RHOA-fil TERGAL, RHOA-tex TERGAL* (yarn)

SPINNSTOFFABRIK ZEHLENDORF A.G.

Polyester	Berlin-Zehlendorf *Trevira* (yarn & staple)

WACKER-CHEMIE G.m.b.H.

Vinal	München-Burghausen *Wacker MP-Faser* (staple)

OLEFIN FIBER

J. F. ADOLFF A.G. Backnang (P film)

AMOCO FABRICS & FIBERS CO., DIVISION OF AMOCO (DEUTSCHLAND) G.m.b.H. Gronau (P film & staple)

J. H. BENECKE G.m.b.H. Peine *Corovin* (P spunbonded)

R. B. J. RUDOLF BILLERMANN KG Emsdetten (P yarn & staple)

CHEMISCHE WERKE HÜLS A.G. Marl, Kreis Recklinghausen, Westphalia *Vestolan* (E & P monofil)

DYNAMIT NOBEL A.G. Troisdorf, Bez. Köln *Trofil* (E & P monofil & tow)

DEUFIL Bergkamen (P yarn)

FASERWERKE BOTTROP G.m.b.H. Bottrop (P staple)

FÜSSENER TEXTIL A.G. Füssen (P film)

GEO. GLEISTEIN & SOHN Bremen-Vegesack (P film & monofil)

E. HAHL KG Munderkingen (P monofil)

HOECHST A.G. Bobingen, Augsburg-Land (P staple)

RUDOLF HILLER KG (P monofil)

LUTRAVIL SPINNVLIES Kaiserslautern *Lutrasil* (P spunbonded)

HEINRICH REINHOLD KG Selbitz/Bayern (P staple)

STEEN Hamburg (P staple)

WESTFALIA SPINNEREI U. KUNSTOFFWERK SCHEM KG -Minden (P monofil & film)

OLEFIN FILM FIBER, only

BAUMHÜTER G.m.b.H. Wiedenbrück

GERMANY, FEDERAL REPUBLIC OF (continued)

BUNDESREPUBLIK DEUTSCHLAND (WESTERN)

BREMER WOLL-KÄMMEREI Bremen-Blumenthal

ERNST JAEGER Düsseldorf-Reisholz

HEINZ G. JUNEMANN (NORDHESSISCHE HAARWARENFABRIK) Felsberg

KUSGA KUNSTOFFGARNE G.m.b.H. Mainz

POLYDRESS PLASTIC G.m.b.H. Michelstadt

POLYUNION KUNSTOFFWERK Mesum

SCHILGEN Emsdetten

SPOHN G.m.b.H Freiburg

B. T. F. TECKLENBORG & CO. Bremen-Grohn

DR. KARL WETEKAM & CO. Melsungen

GLASS FIBER

GEVETEX-TEXTILGLAS G.m.b.H. Aachen & Herzogenrath
Fiberglas Vetrotex

SCHULLER GLASWERK Westheim

GREECE

ETMA S.A.

Nylon 6/66	Athens (yarn)
Rayon	Athens (reg yarn)

HELLENIC SYNTHETICS INDUSTRY

Polyester	Kalogreza (yarn)

POLYETMA LTD.

Polyester	Athens (yarn)

VOMVICRYL S.A. (affiliate of "Vomvix" S.A.)

Acrylic	Stylis, near Lamia (yarn, staple, tow & tops)

"VOMVIX" S.A.

Nylon 6/66	Athens (yarn)
Polyester	Athens (yarn)

OLEFIN FIBER

VIOFARM Argos (P staple)

OLEFIN FILM FIBER, only

ARIPLAST S.A. Athens

BIOSISAL Athens

GREECE (continued)

DESSILA Piraeus

ELVISAK Athens

MARINE ROPE Athens

OLYMPIC ROPES Piraeus

SISAL ROPERY Salonika

C. VELLIS HEIRS S.A. Piraeus

VESY S.A. SYNTHETIC MATERIALS INDUSTRY Piraeus

GUATEMALA

HILOS SINTETICOS CENTROAMERICANOS, S.A.

Nylon 6	San José Pinula, Guatemala (yarn) (idle)

OLEFIN FIBER

CORDELERIA LA RAPIDA Guatemala, Guatemala (P monofil)

HONDURAS

OLEFIN FIBER

POLYMER (subsidiary of United Brands) San Pedro Sula (P film)

HUNGARY

MAGYAR VISCOSAGYÁR (Hungarian Viscose Factory) •

Acrylic	Nyergesújfalu *Crumeron* (staple)
Nylon 6	Nyergesujfalu *Danamid* (yarn & staple)
Rayon	Nyergesújfalu *Crumeron* (staple)

OLEFIN FIBER

GRABOPLAST Győr (P staple)

KENDER JUTA TEXTILIPARI V. Budapest (P film)

KENDERFONÓ ES SZÖVÖIPARI V. SZEGED Szeged (P film)

MAGYAR VISCOSAGYÁR Nyergesújfalu *Popril* (P staple)

SOPRONI SZÖNYEGGYÁR Sopron *Sopilen* (P yarn)

TISZA CHEMICAL COMBINE Lenin Varas (P staple)

INDIA

ACME INVESTMENTS LTD.

Nylon 6	Panki Industrial Area, Kanpur* (yarn)

INDIA (continued)

THE AHMEDABAD MFG. & CALICO PRINTING CO. LTD. CALICO POLYESTER FIBRE DIV.

Polyester	Baroda, Gujarat *Ilacron* (staple)

ANDHRA PRADESH RAYONS LTD.

Rayon	Kamalapuram, Warangal District, Andhra Pradesh* (staple)

THE BARODA RAYON CORPORATION LIMITED

Nylon 6	Udhna, Gujarat *Snialon* (yarn)
Polyester	Udhna *Sniater* (yarn)
Rayon	Udhna (reg yarn)

BONGAIGAON REFINERY AND PETROCHEMICALS LTD.

Polyester	Goalpara, Assam* (staple)

CENTURY ENKA LIMITED

Nylon 6	Bhosari, Pune, Maharashtra* *Enkalon* (yarn)
Polyester	Bhosari (yarn)

CENTURY RAYON (Prop.: The Century Spg. & Mfg. Co. Ltd.)

Rayon	Kalyan, near Bombay, Maharashtra (ind & reg yarn)

GARWARE NYLONS LIMITED

Nylon 6	Pimpri, Pune, Maharashtra* *Garware* (yarn & monofil)
Polyester	Pimpri (yarn)

THE GWALIOR RAYON SILK MFG. (WVG) CO. LIMITED

Rayon	Birlagram, Nagda, Madhya Pradesh & Birlakootoam, Mavoor, Kerala (staple)
Polyester	Rajgarh*, Madhya Pradesh (staple)

HARYANA PETROCHEMICALS LTD.

Polyester	Rewari, Haryana* (yarn)

INDIA POLYFIBRES

Polyester	Parakandauli & Lucknow, Uttar Pradesh (staple)

INDIAN EXPLOSIVES LTD.

Polyester	Thane, near Bombay, Maharashtra *Terene* (staple)

INDIAN ORGANIC CHEMICALS LIMITED

Polyester	Manali, Madras, Tamil Nadu *Futura* (yarn & staple)

INDIAN PETROCHEMICALS CORP. LTD.

Acrylic	Vadodara, Baroda, Gujarat *Cashmilon* (staple)

THE INDIAN RAYON CORPORATION LIMITED

Rayon	Veraval, Gujarat (reg yarn)
Polyester	Broach (yarn*)

J.K. RAYON, J.K. PURI

Rayon	Kanpur, Uttar Pradesh (reg yarn)

J.K. SYNTHETICS LIMITED

Acrylic	Kota, Rajasthan *Jayacrylic* (staple)
Nylon 6	Kota *Jayanka, Jaycord, Jaykalon* (yarn, monofil & staple)
Polyester	Calcutta, Kota, Orissa* *Jakaylene* (yarn & staple)

INDIA (continued)

JAGATJIT COTTON TEXTILE MILLS LTD.

Nylon 6	Hoshiarpur, Punjab (yarn)
Polyester	Hoshiarpur (yarn)

KARNATAKA STATE INDUSTRIAL DEVELOPMENT CORPORATION LIMITED

Nylon 6	Karnataka* (yarn)
Polyester	Karnataka* (yarn & staple)

KESORAM RAYON (Prop.: Kesoram Industries and Cotton Mills Ltd.)

Rayon	Nayasarai, Hooghly, West Bengal (reg yarn)

MODIPON LIMITED

Nylon 6	Modinagar, Uttar Pradesh *Modipon* (yarn)
Polyester	Modinagar (yarn)
Rayon	(staple*)

THE NATIONAL RAYON CORPORATION LIMITED

Nylon 6	Mohone-Kalyan, near Bombay, Maharashtra* *N.R.C* (yarn)
Rayon	Mohone-Kalyan (ind & reg yarn)

NIRLON SYNTHETIC FIBRES & CHEMICALS LIMITED

Nylon 6	Bombay, Maharashtra *Nircord, Nirlon* (yarn & monofil)
Polyester	Bombay *Nirester* (yarn)

ORISSA SYNTHETICS LTD.

Polyester	Orissa* (staple)

ORKAY SILK MILLS PVT. LTD.

Polyester	Patalganga, Maharashtra* (yarn)

PARSURAM PURIA SYNTHETICS LTD.

Polyester	Alwar, Rajasthan* (yarn)

PASUPATI ACRYLON LIMITED

Acrylic	Moradabad, Uttar Pradesh* (staple)

PETROFILS COOPERATIVE LIMITED

Polyester	Jawaharnagar, Baroda, Gujarat (yarn)

PRADESHIYA INDUSTRIAL INVESTMENT CORPORATION OF UTTAR PRADESH

Polyester	Uttar Pradesh* (yarn)

PUNJAB STATE INDUSTRIAL DEVELOPMENT CORP. LTD.

Acrylic	Punjab (staple)
Polyester	Punjab (staple)

RELIANCE INDUSTRIES LTD.

Polyester	Patalganga, Maharashtra* (yarn & staple*)

SHREE SYNTHETICS LIMITED

Nylon 6	Naulakhi, Ujjain, Madhya Pradesh *Shreelon* (yarn)
Polyester	Naulakhi *Shreester* (yarn)

SHRIRAM FIBRES LIMITED

Nylon 6	Manali, Madras, Tamil Nadu *Tufcord* (yarn)

INDIA (continued)

SHRIRAM RAYONS

Rayon	Kota, Rajasthan (ind yarn)
Nylon 6	Kota (yarn)

THE SIRSILK LIMITED

Acetate	Sirpur-Kaghaznagar, Andhra Pradesh (yarn & staple)

SOUTH INDIA VISCOSE LIMITED

Rayon	Sirumughai, near Mettupalayam, Tamil Nadu (reg yarn & staple)

STRETCH FIBRES (INDIA) LIMITED

Nylon 6	Nagpur, Maharashtra *SF* (yarn)

SWADESHI POLYTEX LIMITED

Polyester	Gaziabad, Uttar Pradesh *Jailene* (staple)

THAPAR DU PONT LTD.

Nylon	Goa* (ind yarn)

THE TRAVANCORE RAYONS LIMITED

Rayon	Rayonpuram, Kerala (reg yarn)

TUNGABHADRA FIBRES LTD.

Rayon	Tungabhadra, Andhra Pradesh (staple)

OLEFIN FIBER

AMITABH TEXTILE MILLS LTD. Dehra Dun, Uttar Pradesh* (P yarn)

ANIL KUMAR JAIN Ankleshwar, Gujarat* (P yarn)

GUJARAT FILAMENTS CORPORATION LTD. Baroda, Gujarat* (P yarn)

GUPTA NEEDLE INDUSTRIES PVT. LTD. Dharuhera, Haryana* (P yarn)

INDO SYNTHETICS CORP. (P yarn*)

J.K. BHAGAT Bhiwand, Alwar, Rajasthan* (P yarn)

KALYANI ASBESTOS CEMENT PVT. LTD. Kalol, Gujarat* (P yarn)

NEOMER LIMITED Baroda, Panchmahal, Gujarat *Proplon* (P staple)

NIAGARA INTERNATIONAL (P yarn*)

POLYPROP INDUSTRIES Dharuhera, Haryana* (P yarn)

POLYPROPYLENE INDIA, LTD. Uttar Pradesh* (P yarn)

RAJASTHAN PETROSYNTHETICS LTD. Udaipur, Rajasthan* (P yarn)

RAJENDRA V. PATEL Cambay, Gujarat* (P yarn)

SANJEEV SHRIYA Uttar Pradesh* (P yarn)

INDONESIA

INDONESIA PENELITIAN SELULOSA (Cellulose Research Institute)

P.F. FIBRES e CHEMICALS

Nylon	(yarn)

P.T. BERKAT INDAH AGUNG

Rayon	Tangerang, West Java* (staple)

P.T. INDO-BHARAT RAYON

Rayon	Desa Cilangkap, Purwakarta (staple)

P.T. INDONESIA ASAHI CHEMICAL

Nylon 6	Jatiluhur, Purwakarta, West Java (yarn)

P.T. INDONESIA TORAY SYNTHETICS

Nylon 6	Tangerang, West Java (yarn)
Polyester	Tangerang (staple)

P.T. INDUSTRI SANDANG I

Polyester	Tangerang* (staple)

P.T. INDUSTRI SANDANG II

Rayon	South Sumatra* & West Kalimantan* (staple)

P.T. INTI

Rayon	West Kalimanton (staple*)

P.T. INTI INDAH RAYON UTAMA

Rayon	Sosorladang, N. Sumatra* (yarn)

P.T. KUMA FIBER (P.T. Kuraray Manunggal Fibre Industries)

Polyester	Cikokol, Tangerang, West Java (staple)

P.T. POLYSINDO EKA PERKASA

Polyester	Kaliwungu, Kendal, C. Java (staple)

P.T. SHINTA-INDAH DJAYA

Nylon 6	Tangerang, West Java (yarn)
Polyester	Tangerang *Shinta* (yarn)

P.T. SOUTH PACIFIC VISCOSE

Rayon	Purwakarta, West Java (staple)

P.T. SUSILIA INDAH SYNTHETIC FIBRES INDUSTRIES

Polyester	Djakarta*, Tangerang, West Java (yarn & staple)

P.T. TEXMACO TAMAN SYNTHETIC

Polyester	Kaliwungu Kendal, West Java (yarn)

P.T. TIFICO (P.T. Teijin Indonesia Fibre Corp.)

Polyester	Tangerang, West Java (yarn & staple)

P.T. TOLARAM

Polyester	(yarn)

P.T. TRI REMPOA SOLO SYNTHETIC

Polyester	Rempon, Tangerang, West Java* (staple)

P.T. VASTEX BIMA INDUSTRIES

Polyester	Jalan Gedebage Ujungberung Bandung (yarn)

INDONESIA (continued)

P.T. YASINTA
Polyester Tangerang, West Java (yarn)

RAUMAQ ENTERPRISES
Nylon (yarn)

IRAN

PARSYLON CORPORATION
Nylon 6 Khoram-Abad (yarn)

POLYACRYL IRAN CORPORATION
Acrylic Isfahan (staple)
Polyester Isfahan (yarn & staple)

SHERKAT SAHAMI ALIAF
Nylon 6 Tehran *Aliaf* (yarn)

OLEFIN FIBER

JAHANCITT SPINNING & WEAVING CO. Tehran (P film)

IRAQ

HINDIYA RAYON FACTORY
Rayon Hindiya (reg yarn & staple)

OLEFIN FIBER

STATE ENTERPRISE FOR PLASTIC BAGS Tikrit

IRELAND

ASAHI SYNTHETIC FIBRES (IRELAND) LTD.
Acrylic Ballina, Mayon *Cashmilon* (staple)

LIRELLE (IRELAND) LTD. (A Division of Unifi, Inc.)
Polyester Letterkenny *Lirelle* (yarn)

WELLMAN INTERNATIONAL LTD.
Nylon 6/66 Mullagh, Kells, Meath *Wellon* (staple)
Polyester Mullagh *Filwell, Wellene* (staple)

OLEFIN FIBER

F. DRAKE (IRELAND) LTD. Moate, Westmeath (P staple)

J. & L.F. GOODBODY (SYNTHETICS) LTD. Clara, Offaly (P yarn & film)

OLEFIN FILM FIBER, only

IRISH POLYSACKS LTD. Blarney, Cork

IRISH ROPES LTD. Newbridge, Kildare

POLYTEX LTD.

ISRAEL

ISRAEL CHEMICAL FIBRES LIMITED
Acrylic Ashdod (staple & tow)

NILIT
Nylon 66 Migdal Ha-Emek (yarn)

ITALY

ALBATESSILE S.p.A.
Polyester Alba, Piemonte (yarn)

AQUAFIL S.p.A.
Nylon 6 Arco di Trento, Trentino *Aqualon* (yarn)
Polyester Arco di Trento (yarn)

BEMBERG S.p.A.
Nylon 6 Gozzano, Piemonte *Ortalion* (yarn)
Cupro Gozzano *Bemberg* (yarn)

CARPOL S.p.A.
Nylon 6 Forli, Emilia Romagna (yarn)

ENICHEM FIBRE S.p.A. (formerly Anicfibre)
Acrylic Ottana & Porto Torres, Sardegna *Euroacril, Sironil* (staple & tow)
Nylon 6 Pisticci, Lucania *Nivion* (yarn & staple)
Polyester Ottana *Fidion* (staple & tow)

FILATURA DI VAL LESINA S.p.A.
Polyester Andalo Valtellino, Lombardia *Valena* (yarn)

FIMALON S.p.A.
Nylon 66 Castelnuovo Valsugana, Trentino Alto Adige (yarn)

FORTEX SIDAC S.p.A.
Nylon 6 Forli, Emilia Romagna *Forlion* (yarn)

FRATELLI FRANCHI S.p.A.
Nylon 6 Canapale, Toscana *Frankilon* (yarn)
Polyester Canapale *Frankilene* (yarn)

INDUSTRIE TESSILI VERCELLI S.p.A.
Acetate Vercelli, Piemonte (yarn)

MONTEFIBRE S.p.A.
Acrylic Porto Marghera, Veneto *Leacril* (staple & tow)
Polyester Acerra, Campania *Terital* (yarn, staple & tow)

NOVACETA S.p.A.
Acetate Magenta, Lombardia (yarn)

NUOVA RAYON ITALIA S.p.A.
Rayon Rieti, Lazio (reg yarn)

RADICI FIL S.p.A.
Nylon 6 Casnigo, Lombardia (yarn)

SETTE STELLE S.p.A.
Nylon 6 Castelgoffredo, Lombardia (yarn)

ITALY (continued)

SNIA FIBRE S.p.A.

Acrylic	Cesano Maderno, Lombardia; Villacidro, Sardegna *Velicren, Velicren F.R.* (staple & tow)
Nylon 6/66	Castellaccio, Lazio; Cesano Maderno & Varedo, Lombardia; Villacidro; Napoli, Campania *Coro Lilion Souple, Lilion Styl* (yarn, staple & tow)
Polyester	Napoli *Wistel, Wistel F.R.* (yarn)
Poliossamide	Cesano Maderno *Vivrelle* (staple)

SOCIETÀ INDUSTRIALE CREMONESE S.p.A.

Rayon	Pizzighettone, Lombardia (ind yarn)

STERE

Polyester	Cardano al Campo, Lombardia (yarn)

TERBOND S.p.A.

Polyester	Pisticci, Lucania *Terbond* (spunbonded)

TEXTILE PRODUKTE S.p.A.

Nylon 6	Villa D'Ogna, Lombardia (yarn & staple)

TORCITURA DI BORGOMANERO S.p.A.

Nylon 6	Milano, Lombardia *Borgolon* (yarn)

OLEFIN FIBER

EUROFIL Gandino, Lombardia (P staple)

FILATURA DI DELEBIO S.p.A. Delebio, Lombardia *Delebion* (P yarn)

FILLI FRANA Casnigo, Lombardia (P staple & film)

I.T.S. Legnano, Lombardia (P yarn)

MOPLEFAN (Formerly Himont Italia S.p.A.) Terni, Umbria *Meraklon* (P yarn & staple)

M.R. 81 Grassobbio, Lombardia (P yarn)

NOVASAR Caronno Pertusella, Lombardia (P yarn & staple)

POLYMECON Zibido S. Giacomo, Lombardia (P staple & tow)

SERGEL Casnigo, Lombardia (P staple)

TEXTILE PRODUKTE Villa D'Ogna, Lombardia (P staple)

OLEFIN FILM FIBER, only

CARPET BACKING S.p.A. Ceniga

DE MAGISTRIS EMILIO Bagnolo Cremasco

LICANA NORD S.p.A. Cassano d'Adda (Milano)

MILANPLAST s.r.l. Milano

MOPLEFAN S.p.A. Milano

ITALY (continued)

NEOFIBRE s.r.l. Lendinara

SACHIM (MUMMOLO) Bari

S.E.A.L. S.p.A. Milano

S.I.S.A.L. S.p.A. Piacenza

STIROSIR S.p.A. Milano

TESSITURA LOMBARDA DI CONSONNI ELIA ALBIATE

GLASS FIBER

VETROTEX ITALIA S.p.A. Besana Brianza, Lombardia (mat), Fibras Di Rinforzo *VETROTEX*

VITROFIL S.p.A. Vado Ligure, Liguria

JAPAN

ASAHI CHEMICAL INDUSTRY CO., LTD.

Acrylic	Fuji *Cashmilon, Pewlon* (yarn & staple)
Nylon 6/66	Nobeoka & Moriyama *Asahi Kasei Nylon, Leona* (yarn, monofil & spunbonded)
Polyester	Nobeoka & Moriyama *Asahi Kasei Ester* (yarn & spunbonded)
Rayon	Nobeoka (reg & cupra yarn, cupra staple & cupra spunbonded)
Saran	Suzuka (yarn, monofil & staple)
Spandex	Moriyama *Roica*

DAIWABO RAYON CO., LTD.

Rayon	Masuda (staple)

FUJI SPINNING CO., LTD.

Rayon	Toyo (staple)
Spandex	Kozakai *Fujibo Spandex*

JAPAN EXLAN CO., LTD.

Acrylic	Saidaiji *Exlan* (staple)

KANEBO, LTD.

Acrylic	Hofu *Kanebo Acryl* (staple)
Nylon 6	Hofu *Kanebo Nylon* (yarn)
Polyester	Sabae *Kanebo Polyester* (yarn)
Spandex	Hofu *Kanebo Loobell*

KANEBO RAYON, LTD.

Rayon	Hofu (staple)

KANEGAFUCHI CHEMICAL INDUSTRY CO., LTD.

Modacrylic	Takasago *Kanecaron, Kanekalon* (staple & tow)

KOHJIN CO., LTD.

Polychlal	Yatsushiro *Cordelan* (staple)
Rayon	Yatsushiro (staple)

JAPAN (contunued)

KURARAY CO., LTD.

Polyester	Saijo & Tamashima *Kuraray Polyester* (yarn & staple)
Rayon	Kurashiki, Saijo & Tamashima *Three Golden Horses* (reg yarn)
Vinal	Okayama *Kuralon* (yarn & staple)

KUREHA CHEMICAL INDUSTRY CO., LTD.

Saran	Mibu *Krehalon* (yarn, monofil & staple)
Vinyon	Mibu *Viclon* (monofil)

MITSUBISHI ACETATE CO., LTD.

Acetate	Toyama (yarn & tow)
Triacetate	Toyama (yarn)

MITSUBISHI RAYON CO., LTD. •

Acrylic	Otake *Finel, Silpalon, Vonnel* (yarn & staple)
Polyester	Toyohashi *Soluna* (yarn), Lunaace (staple)

NIPPON ESTER CO., LTD.(subsidiary of Unitika, Kanebo and Mitsubishi Chemical Industry)

Polyester	Okazaki & Sabae *Unitika Ester, Kanebo Ester* (yarn & staple)

NISSHINBO INDUSTRIES, INC.

Rayon	Tokushima (staple)
Spandex	Tokushima *Mobilon*

NITIVY CO., LTD.

Vinal	Fujieda *Niti-Vilon, Solvron, Vilon* (yarn)

OMIKENSHI CO., LTD.

Rayon	Kakogawa (yarn & staple)

TEIJIN LTD.

Aramid	Iwakuni & Matsuyama *Technora, Teijinconex* (yarn & staple)
Nylon 6	Mihara *Teijin Nylon* (yarn)
Polyester	Iwakuni, Matsuyama & Tokuyama *Teijin-Tetoron* (yarn & staple)
Vinyon	Iwakuni *Teviron* (yarn)

TEIJIN ACETATE LTD. (subsidiary of Teijin Ltd.)

Acetate	Matsuyama (yarn)

TOHO RAYON CO., LTD.

Acrylic	Mishima *Beslon* (staple & tow)
Rayon	Tokushima *Tovis* (staple)

TORAY- DU PONT COMPANY LTD.

Spandex	Shiga *Opelon* (fused multifil)

TORAY INDUSTRIES, INC.

Acrylic	Ehime *Toraylon* (staple)
Nylon 6	Aichi, Ishikawa*, Nagoya, Okazaki & Shiga *Amilan, Toray Nylon* (yarn & staple)
Nylon 6/66 copolymer	Aichi *Tapilon* (yarn)
Nylon 66	Aichi, Ishikawa & Okazaki *Promilan* (yarn)
Polyester	Ehime, Ishikawa, Mishima & Okazaki *Toray Tetoron* (yarn & staple)

TORAY-MONOFILAMENT CO., LTD.

Nylon 6	Okazaki *Toray Nylon* (monofil)

JAPAN (continued)

TOYO CHEMICAL CO., LTD.

Vinyon	Ofuna *Envilon* (yarn & monofil)

TOYOBO CO., LTD. •

Nylon 6	Tsuruga *Toyobo Nylon* (ind & reg yarn)
Polyester	Iwakuni & Tsuruga *Toyobo Ester* (yarn, staple & spunbonded)
Promix	Tsuruga *Chinon* (yarn)
Rayon	Iwakuni *Tufcel* (staple)
Spandex	Tsuruga *Espa*

TOYOBO PETCORD CO., LTD.

Polyester	Tsuruga *Toyobo Petcord* (ind yarn)

UNITIKA LTD.

Nylon 6	Uji *Unitika Nylon* (yarn, monofil & staple)
Polyester	Okazaki *Ester Marix* (ind yarn & spunbonded)

UNITIKA KASEI CO., LTD.

Vinal	Sakoshi (Akoh City) *Mewlon* (yarn, monofil & staple)

UNITIKA RAYON CO., LTD.

Rayon	Okazaki & Uji (ind & reg yarn)

YOSHIDA KOGYO K.K.

Polyester	Kurobe (yarn)

OLEFIN FIBER

ASAHI CHEMICAL INDUSTRY CO., LTD. Moriyama (P spunbonded)

CHISSO POLYPRO FIBER CO., LTD. Moriyama *Chisso Polypro, ES Fiber* (P yarn & staple)

DAIWABO CO., LTD. Harima *Daiwabo Polypro, NBF Fiber* (E & P staple)

HAGIHARA INDUSTRY CO., LTD. Kurashiki (E monofil & film)

HIRATA SPINNING CO., LTD. Yokkaichi *Hiralon* (E & P yarn & monofil)

INABA SEIKO, LTD. Gamagori (E monofil)

KANEYA SEIKO, LTD. Hokkaido & Kushiro (E & P monofil)

KUREHA CHEMICAL INDUSTRY CO., LTD. Mibu *Kureha Polypropylene* (P monofil)

MARUAI CO., LTD. Toyohashi (E monofil)

MITSUBISHI RAYON CO., LTD. Toyohashi *Mitsubishi Pylen* (P yarn & staple)

NAGANO KAKO CO., LTD. Nagano (E monofil)

SHOWA POLYMER CO., LTD. Ibaraki (E monofil & film)

SUNREX INDUSTRY CO., LTD. Yokkaichi (E monofil & P spunbonded)

JAPAN (continued)

TAI-RAY CO., LTD. Mito *Danzex, Danzex Lite, Liplon* (E monofil, P yarn & monofil)

TANIYAMA CHEMICAL INDUSTRY CO., LTD. Okayama *Tanikalon* (E monofil)

TOA WOOL SPINNING & WEAVING CO., LTD. Tomari *Toabo Polypro* (P staple)

TONEN TAPYRUS K.K. (TONEN TAPYRUS CO., LTD.) Kawasaki *Tapyrus* (P spunbonded)

TOYOBO CO., LTD. Iwakuni (P staple)

UBE-NITTO KASEI CO., LTD. Fukuyama & Gifu *Bulkilon-F, Danline,Sun Line, Super Danline, Ube-Nitto Polypro, UNK UC Fiber* (E & P monofil & P yarn & E & P staple)

DAIDO KASEI Osaka

FUJIMOTO SANGYO Osaka

OKAMOTO CHEMICAL Ehime

SAKAI KASEI Osaka

SANTO CHEMICAL Aichi

SEKISUI CHEMICAL Amagasaki & Nara

TOYAMA Chiba

TOYO SODA Yokkaichi

WAKO SPINNING CO. Gifu

YAMAJIN TEXTILE Fukui

GLASS FIBER

ASAHI FIBER GLASS CO., LTD. Ibaraki & Shonan *Glasslon*

ASAHI-SCHWEBEL CO., LTD. Moriyama

CENTRAL GLASSFIBER CO., LTD. Matsusaka

FUJI FIBER GLASS CO. Moka

KANEBO, LTD. Gunma *Textoglass*

NIPPON GLASS FIBER CO., LTD. Tsu *Micro Glass*

THE NIPPON MINERAL FIBER MFG. CO. Tarui & Yuki *Superfine*

NITTO BOSEKI CO., LTD. Fukushima *Iceberg*

PARAMOUNT GLASS MFG. CO., LTD. Koriyama & Suzuka *Fether Glass*

UNITIKA U.M. GLASS CO., LTD. Kyoto

KENYA

AFRICA SYNTHETIC FIBER LTD.
Nylon 6 Thika (yarn)
Polyester Thika (staple)

JAYDEES LTD.
Polyester Nairobi (yarn)

KENYA FIBRE CORPORATION LTD.
Polyester Nanyuki (yarn & staple)

KISUMU COTTON MILL (KICOMI)
Polyester Kisumu

SUNFLAG LTD.
Polyester Nairobi (yarn)

OLEFIN FIBER

UNISACK LTD. Thika (P film)

KOREA
PEOPLE'S DEMOCRATIC REPUBLIC OF (NORTH)

A number of man-made fiber plants are said to be operating in North Korea (see June 1970 *Organon* issue, page 113); however, no data for this country are recorded in any table of this issue due to lack of reliable information.

KOREA
REPUBLIC OF (SOUTH)

CHEIL SYNTHETIC TEXTILES COMPANY
Polyester Kumi *Eslon* (yarn & staple)

DAEHAN SYNTHETIC FIBER COMPANY
Polyester Ulsan *Acelan* (yarn & staple)

GORYEO NYLON CORPORATION LTD.
Nylon 6 Kyungsan Kun *Kolon* (yarn)

HANIL SYNTHETIC FIBER INDUSTRIAL COMPANY
Acrylic Masan *Hanilon* (staple)

JEIL SYNTHETIC FIBERS COMPANY*
Polyester Seoul *Oplen* (yarn)

KOHAP, LTD. *
Nylon 6 Shihung *Paimylon* (yarn & staple)
Polyester Shihung *Palmylon* (yarn & staple)

KOLON INDUSTRIES INC.
Nylon 6 Kumi, Taegu *Kolon* (yarn)
Polyester Kumi *Kolon* (yarn)

SAMYANG COMPANY, LTD.
Polyester Chunju *Triron* (yarn & staple)

KOREA
REPUBLIC OF (SOUTH) (continued)

SUNKYONG FIBRES LTD.

Acetate	Suwon *Sunkyung* (yarn & tow)
Polyester	Suwon & Ulsan *Sunkyong* (yarn & staple)

TAEKWANG INDUSTRIAL COMPANY

Acrylic	Ulsan *Acelan* (staple)
Spandex	Ulsan *Acelan* (yarn)

TONGKOOK FIBRES LTD.

Polyester	Kumi* (yarn)

TONGYANG NYLON COMPANY

Nylon 6	Anyang & Ulsan *Toplon* (yarn)
Polyester	Ulsan *Toplon* (yarn)

TONGYANG POLYESTER COMPANY

Polyester	Ulsan *Toplon* (yarn)

WONJIN RAYON COMPANY, LTD.

Rayon	Donong *Coray* (reg yarn & staple)

OLEFIN FIBER

JEIL SYNTHETIC FIBERS COMPANY Seoul *Oplene* (P yarn & staple)

KOHAP, LTD. Shihung *Happylon, Pylon* (P staple)

KUMSUNG SYNTHETIC FIBER CO., LTD. Seoul *Hopelon, Polon* (P staple) (idle)

LIBYA

LIBYA NATIONAL OIL CORPORATION (LINOCO)

Nylon 6	Marsa Al-Brega* (yarn)
Polyester	Marsa Al-Brega* (staple)

LUXEMBOURG

TECHNOFIBRES

Polyester	Mertert (yarn)

Production and capacity data are combined with Belgium and the Netherlands under "Benelux" on pages 100 - 101.

OLEFIN FIBER

DU PONT FIBRES S.A. Contern-Hesperange *Typar* (P spunbonded)

MALAYSIA

ACRYLIC TEXTILE OF MALAYSIA SDN. BHD.

Acrylic	Kedah (yarn)

KANEBO MALAYSIAN SPINNING MILLS SDN. BHD.

Acrylic	Prai (yarn)

MALAYSIA (continued)

PENFIBRE SDN. BHD.

Polyester	Penang (staple)

SOUTEX SENDIRIAN BERHAD

Polyester	Batu Pahat (yarn & staple)

TOOTAL THREAD MALACCA SDN. BHD.

Polyester	Malacca (yarn)

MALTA

NYLON KNITTING CO. LTD.

Nylon 6	Qormi (yarn)

Production and capacity data are combined with Italy.

MEXICO

CELANESE MEXICANA, S.A.

Acetate	Ocotlán, Jalisco (yarn & staple)
Acrylic	Zacapu, Michoacán (staple, tow & tops)
Nylon 6	Ocotlán & Toluca, México *Duracel, Nycel* (yarn & staple)
Polyester	Ocotlán, Querétaro & Toluca *Crolan* (yarn & staple)

CELULOSA Y DERIVADOS, S.A.

Acrylic	Atequiza, Jalisco *Crysel* (staple, tow & tops)
Rayon	Monterrey, Nuevo León (ind & reg yarn)

FIBRAS QUIMICAS, S.A.

Nylon 6	Monterrey, Nuevo León *Supernylon Cydsa* (yarn & monofil)
Polyester	Monterrey *Terlenka* (yarn)

FIBRAS SINTETICAS, S.A.

Acrylic	Cotaxtla, Veracruz *Fisisa* (staple, tow & tops)
Nylon 6	Mexico, D.F. *Fisisa* (yarn & monofil)
Polyester	Cotaxtla & México City *Fisisa* (yarn & staple)

FIBRASOMNI, S.A.•

Nylon 6	Ixtapalapa, D.F. *Omni-Nylon* (monofil)
Saran	Ixtapalapa *Omni-Saran* (monofil)

INDUSTRIAS PETROQUIMICAS MEXICANAS, S.A.

Polyester	El Salto, Jalisco *Inpetmex* (yarn)

KIMEX S.A.

Nylon 6	Tlalnepantla, México *Aztecron* (yarn)
Polyester	Tlalnepantla *Kintrel* (yarn)

NYLON DE MEXICO, S.A.

Nylon 6	La Leona, Nuevo León *Nylfil* (yarn & staple)
Polyester	La Leona *Delcron* (yarn, staple, tow & fiberfill)
Spandex	La Leona *Likra* (fused multifil)

PLASTICA MODERNA, S.A. DE C.V.

Nylon 6	Tlalpan, D.F. *Perlux* (monofil)

MEXICO (continued)

PRODUCTOS PLASTICOS DE PUEBLA, S.A.
Nylon 6 Puebla, Puebla *Prolon* (monofil)

OLEFIN FIBER

FIBRASOMNI, S.A. Ixtapalapa, D.F. *Politen-Omni* (E monofil), *Polyprop-Omni* (P yarn & monofil)

INDUSTRIAS POLIFIL, S.A. Ixtacuixtla, Tlaxcala *Pliana* (P yarn & staple)

PLASTICOS INDUSTRIALIZADOS, S.A. Monterrey, Nuevo León (P staple)

OLEFIN FILM FIBER, only

HILOS Y CORDELES, S.A. Tlalnepantla, México

PLASTICEL, S.A. Monterrey, Nuevo León (*Plasticel*)

POLISAC, S.A. (affiliate of Nylon de México, S.A.), Guadalajara, Jalisco (*Polisac*)

GLASS FIBER

VITRO-FIBRAS, S.A. Zacatenco, D.F. *Vitrofibras*

NETHERLANDS

DU PONT DE NEMOURS (NEDERLAND) N.V.
Spandex Dordrecht *Lycra* (fused multifil)

FIBRES AND POLYMERS DIVISION
Aramid Arnhem, Emmen *Arenka* (yarn)
Nylon 6 Emmen *Enka Perlon Enkalon* (yarn)
Polyester Emmen *Diolen, Terlenka* (yarn & staple)
Rayon Arnhem (ind yarn) & Ede (reg yarn)

OLEFIN FIBER

LANKHORST TOUWFABRIEKEN B.V. Sneek *Tiptolene* (E monofil & P film)

T.T.C. POLYOLEFINS B.V. Nijverdal (P monofil, film & staple)

N.V. VERTO Rotterdam (P film)

GLASS FIBER

SILENKA B.V. Hoogezand (Groningen) *Silenka*

Cellulosic production and capacity data are combined with Belgium on pages 104 - 109. Noncellulosic production and producing capacity data are combined with Belgium and Luxembourg under "Benelux" on pages 100 - 101.

NICARAGUA

OLEFIN FIBER

MANUFACTURERA CENTRO AMERICANA S.A. (MACEN)
Managua (P film)

NIGERIA

NICHEMTEX INDUSTRIES LTD.
Polyester Ikorodu, Lagos *Nigerlene* (yarn & staple)

NORWAY

OLEFIN FIBER

A/S PLATON, AVD. TEKSTIL Notodden *Filmtex* (E & P film)

NORFIL-NORPACK A/S Stavern, near Larvik *Akvaflex* (P yarn, E & P monofil & film)

STAL OG TAU Tonsberg *Norseflex* (P film)

GLASS FIBER

NORSK GLASSFIBER A/S Birkeland

PAKISTAN

BENGAL FIBER INDUSTRIES, c/o BENGAL OIL MILLS LIMITED
Nylon 6 Karachi *Nylpak* (yarn)
Polyester Karachi (yarn & staple)

DILON LIMITED
Nylon 6 Landhi *Dilon* (yarn)
Polyester (yarn*)

GATRON INDUSTRIES LIMITED
Polyester Hub Chowki (yarn)

HASHWANI GROUP
Polyester Sind Province (yarn)

ICI PAKISTAN MANUFACTURERS LTD.
Polyester Lahore *Tere-Pak* (staple)

NATIONAL FIBERS LIMITED
Polyester Korangi, Karachi (yarn & staple)

NILOM NYLON MILLS LIMITED
Nylon 6 Lyallpur *Nilom* (yarn & monofil)

PAK FIBRE INDUSTRIES LIMITED
Polyester Hub Chowki (yarn)

POLYTEX
Polyester (yarn)

PAKISTAN (continued)

RAVI RAYON LIMITED

Acetate	Kala Shah Kaku, Sheikhupura District *Krasil* (yarn)

RUPALI POLYESTER LIMITED

Polyester	Karachi* (yarn & staple)

S.G. RAYON MILLS LIMITED

Polyester	Karachi (yarn)

SYNTHETIC POLYLON

Polyester	Katri (yarn), Hub Chowki (staple)

PERU

BAYER INDUSTRIAL S.A.

Acrylic	Lima *Dralon* (staple)

FILAMENTOS INDUSTRIALES, S.A.

Nylon 6	Lima* (yarn)
Polyester	Lima (yarn)

MANUFACTURA NYLON S.A.

Nylon 6	Vitarte, near Lima (yarn)
Polyester	Vitarte *Diolen* (staple)

MANUFACTURAS DEL SUR S.A.

Nylon 6	Arequipa *Long Life, Mistilon* (yarn)
Polyester	Arequipa (yarn & staple)

RAYON INDUSTRIAL S.A.

Acetate	Lima (yarn)
Nylon	Lima (staple)
Polyester	Lima *Forcel* (yarn, staple, tow & tops)

RETEX PERUANA, S.A.

Nylon 6	Ventanilla, Callao (yarn)

OLEFIN FILM FIBER, only

NORSAC S.A. Trujillo

POLICEL DEL PERU S.A. Lima

SACOS DEL SUR S.A. Arequipa

SACOS PISCO S.A. Pisco

PHILIPPINES, REPUBLIC OF THE

FILIPINAS SYNTHETIC FIBER CORPORATION

Polyester	Sta. Rosa, Laguna *Filsyn* (yarn & staple)

HI-LON MANUFACTURING CORPORATION

Nylon 6	Calamba, Laguna Philippine Polyamide (yarn) (idle)

INDOPHIL FIBER CORPORATION

Rayon	Manila (staple)

PHILIPPINES, REPUBLIC OF THE (continued)

LAKEVIEW INDUSTRIAL CORPORATION

Polyester	Carmona, Rizal *Licron* (yarn & staple)

TEXFIBER CORPORATION

Nylon 6	Taytay, Rizal *Texfiber* (yarn)

OLEFIN FIBER

INDUSTRIAL TEXTILE MANUFACTURING CO. (ITEMCOP) Mandaluyong, Rizal (P film)

MANILA CORDAGE COMPANY Manila (P film)

POLAND

CHODAKOWSKIE ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX"

Rayon	Sochaczew (reg yarn)

WROCŁAWSKIE ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX"

Rayon	Wrocław (reg yarn)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-ANILANA"

Acrylic	Łódz *Anilana* (staple)
Azlon	Łódz *Wipolan* (staple, casein base)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-CELWISKOZA"

Polyester	Jelenia Góra *Elana* (staple)
Rayon	Jelenia Góra (staple)
Spandex	Jelenia Góra (pilot plant) *Elaston* (yarn)

ZAKŁADY WŁOKIEN CHEMICZNYCH "ELANA"

Polyester	Torun, Bydgoszcz *Torlen* (yarn), *Elana* (staple)

ZAKŁADY WŁOKIEN CHEMICZNYCH "STILON"

Nylon 6	Gorzów Wielkopolski *Lanastil, Stilon* (yarn), *Polana* (staple)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-WISKORD" •

Rayon	Szczecin-Zydowce (reg yarn)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-WISTOM"

Rayon	Tomaszów Mazowiecki, Łódz (ind & reg yarn & staple)

OLEFIN FIBER

ZAKŁADY PRZEMYSŁU LNIARSKIEGO LENKO Bielsko-Biala (P film)

ZAKŁADY PRZEMYSŁU LNIARSKIEGO SKARBKOW Mirsk, Wrocław (P staple)

POLAND (continued)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-WISKORD"
Szczecin-Zydowce (P staple)

GLASS FIBER

KROSNIENSKIE HUTY SZKLA Krosno

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-ANILANA"
Łódz *Polsilon*

PORTUGAL

COMPANHIA INDUSTRIAL DE FIBRAS ARTIFICIAIS (CIFA), S.A.R.L.

Nylon 6	Sobrado, Valongo *Cifalon* (yarn)
Rayon	Sobrado (reg yarn & staple)

FIBRAS SINTÉTICAS DE PORTUGAL, S.A.R.L. (FISIPE)

Acrylic	Lisbon *Vonnel* (staple, tow & tops)

FINICISA - FIBRAS SINTÉTICAS, S.A.R.L.

Polyester	Portalegre, Alto Alentejo *Terylene* (staple)

HOECHST PORTUGUESA S.A.R.L.

Nylon	Porto (monofil)

TÊXTIL ARTIFICIAL DO PORTO, LDA.

Rayon	Porto (reg yarn)

OLEFIN FIBER

ALICATIFAS DA LOUSA (P staple)

FERCOL (P staple)

LUSOTUFO (P staple)

QUIMIGAL - QUIMICA DE PORTUGAL, E.P. Barreiro (P staple & film)

OLEFIN FILM FIBER, only

CERFIL Maia - Douro

CORDEX - COMPANHIA INDUSTRIAL TEXTIL, S.A.R.L.
Esmoriz

COTESI - COMPANHIA DE TEXTEIS SINTÉTICOS S.A.R.L.
Carvalhos

EUROFIL - INDUSTRIAS DE PETROLEOS PLASTICOS E FILAMENTOS, S.A.R.L. Lisbon

FÁBRICA DE TAPETES VITORIA Mira d'Aire

FERNANDES & COSTA, LDA. Seia

MANUEL RODRIGUES DE LIMA & FILHOS Cortegaca

MANUEL RODRIGUES D'OLIVEIRA, S.A. LDA. M. Maia

PORTUGAL (continued)

QUINTAS & QUINTAS Povoa de Varzim

SICOR - SOCIEDADE INDUSTRIAL DE CORDOARIA S.A.R.L.
Cortegaca

GLASS FIBER

QUIMIGAL - QUIMICA DE PORTUGAL, E.P. • Barreiro

ROMANIA

CIMBINATUL DE FIBRE SINTETICE CIMPULUNG MUSCEL

Polyester	Near Brasov (yarn)

COMBINATUL DE FIBRE ARTIFICIALE

Rayon	Braila, Dej* & Suceava* (ind yarn & staple)
Polyester	Vaslui (yarn)

FABRICA DE FIBRE ARTIFICIALE "VISCOFIL"

Rayon	Popesti-Leordeni, near Bucuresti (reg yarn)

FABRICA DE FIBRE ARTIFICIALE "VISCOZA"

Rayon	Lupeni (reg yarn)

INTREPRINDERA DE FIBRE SINTETICE CORABIA

Polyester	North of Pleven (yarn)

UZINA DE FIBRE SINTETICE IASI

Polyester	Iasi *Teron* (yarn, staple, tow & tops)

UZINA DE FIBRE SINTETICE SAVINESTI

Acrylic	Savinesti, near Piatra Neamt (Bacau Region) *Melana* (staple & tops)
Nylon 6	Savinesti *Relon* (yarn & staple)

SOUTH AFRICA, REPUBLIC OF

CONSOLIDATED TEXTILE MILLS (part of Frame Group of Companies)

Polyester	Jacobs, Natal (yarn & staple - captive)

HOECHST SOUTH AFRICA (PTY.) LTD.

Polyester	Milnerton, Cape Province *Trevira* (staple)

SOUTH AFRICAN NYLON SPINNERS (PTY.) LIMITED

Nylon 66	Bellville, Cape Province *Bri-Nylon* (yarn)
Polyester	Bellville & Hammarsdale, Natal *Terylene* (yarn)

OLEFIN FIBER

ROMATEX MILLS Jacobs, Natal (P film)

SPAIN

BRILEN S.A.

Polyester	Barbastro, Huesca & Igualada, Barcelona (yarn & staple)

SPAIN (continued)

COURTAULDS FIBRES S.A.

Acrylic	Prat de Llobregat, Barcelona *Courtelle* (staple & tow)

DE FIBER S.A.

Nylon 66	Vendrell, Tarragona

INDUSTRIAS DEL ACETATO DE CELULOSA, S.A. (INACSA)

Acetate	La Batlloria, Barcelona (yarn)

INDUSTRIAS QUIMICAS TEXTILES S.A. (INQUITEX)

Nylon 6	Andoain, Guipuzcoa *Carbyl, Nylhair, Trinyl* (yarn & staple)

LA SEDA DE BARCELONA, S.A.

Nylon 6	Alcalá de Henares, Madrid *Dayan, Enkalon* (yarn & staple)
Polyester	Prat de Llobregat, Barcelona *Terlenka* (yarn & staple)
Rayon	Prat de Llobregat (ind & reg yarn)

MONTEFIBRE HISPANIA S.A.

Acrylic	Miranda de Ebro, Burgos *Leacril* (staple)

NUREL S.A.

Nylon 6	Zaragoza, Zaragoza *Nurel* (yarn)
Polyester	Zaragoza *Terylene* (yarn & staple)

SOCIEDAD ANONIMA DE FIBRAS ARTIFICIALES (SAFA)

Nylon 66	Blanes & San Julian de Ramis, Gerona *SAFA* (yarn & staple)
Polyester	Blanes *Tergal, Teriber* (yarn & staple)

SOCIEDAD NACIONAL DE INDUSTRIAS APLICACIONES CELULOSA ESPANOLA, S.A. (SNIACE)

Nylon 6	Torrelavega, Santander *Lilion* (yarn & staple)
Rayon	Torrelavega (staple)

OLEFIN FIBER

PAULAR, S.A. - EMPRESA PARA LA INDUSTRIA QUIMICA Puertollano, C.R. *Istrakin* (P monofil & film)

PROFILEX (P staple)

PROPILAN (P staple)

SERINA TEXTIL (P staple)

SOCIEDAD ANONIMA ITALO ESPANOLA (SAITES) Sabadell, Barcelona (P staple & film)

TEXTILE ARMENGOL Bruch, Barcelona (P staple & film)

OLEFIN FILM FIBER, only

CONDEROLS S.A. Granada

CORDELERIAS BARAS S.A. Gijon, Asturias

CORDELERIAS MAR S.A. Vigo, Pontevedra

HILATURAS Y CORDELERIA S.A. - "HILCOSA" Barcelona

SPAIN (continued)

HIRESA Callosa de Segura, Alicante

YUTE INDUSTRIAL S.A. Valencia

GLASS FIBER

CRISTALERIA ESPANOLA - DIVISION FIBRA DE REFUERZO Alcalá de Henares, Madrid *Fibra de Refuerzo VETROTEX*

SRI LANKA

CEYLON PETROCHEMICAL CORPORATION

Nylon 6	Sapugaskan (yarn & monofil)

SWEDEN

SVENSKA RAYON AKTIEBOLAGET

Rayon	Alvenäs, Valberg (reg yarn & staple)

OLEFIN FIBER

SONDEX AB Malmö *Laveten* (E & P monofil)

GLASS FIBER

SCANDINAVIAN GLASFIBER AKTIEBOLAG Falkenberg

SWITZERLAND

EMS INDUSTRIES, LTD.

Nylon 6	Ems, Graubünden *Grilon* (staple)
Polyester	Domat/Ems *Grilene* (staple)

NOYFIL S.A.

Nylon 6	Stabio (yarn)
Polyester	Stabio (yarn)

VISCOSUISSE A.G.

Nylon 6/66	Emmenbruecke, Luzern & Widnau, St. Gallen *Nylsuisse, Flixor* (yarn & staple)
Polyester	Widnau *Tersuisse* (yarn)

OLEFIN FILM FIBER, only

AROVA SCHAFFHAUSEN A.G. Schaffhausen

POLY-STEGN A.G. Flurlingen

VOGT & CO. Reinach

TAIWAN

BAN SHIN FIBER CO., LTD.

Nylon 6	Kaohsiung *Sun & Colorful Seal* (yarn)

TAIWAN (continued)

CENTURY EVERGREEN CORP.
Polyester Tainan *Centuron* (yarn)

CHENTA CHEMICAL INDUSTRIAL CORPORATION
Nylon 6 Kaohsiung *Rabbit* (yarn)

CHI YURN FIBER MILLS
Nylon Tao Yuan (staple)

CHINA MAN-MADE FIBER CORPORATION
Rayon Tou Fen *Queen* (reg yarn & staple)

CHUNG SHING TEXTILE CO., LTD.
Nylon 6 Tao Yuan *Tasinlon, Threegun* (yarn)
Polyester Tao Yuan *Tasinlon* (yarn & staple)

FAR EASTERN LTD.
Polyester Hsin Chu *Eastlene, Eastlon* (yarn & staple)

FORMOSA CHEMICALS & FIBER CORPORATION
(part of Formosa Plastics Group)
Nylon 6 Chang Hwa *Sunylon* (yarn)
Rayon Chang Hwa *Tarsiyon* (reg yarn & staple)

FORMOSA PLASTIC CORPORATION - Tairylan Plant
(part of Formosa Plastics Group)
Acrylic Kaohsiung & Lanchu *Tairylan* (staple, tow & tops)

FUPONT SYNTHETIC INDUSTRIAL CO.
Nylon 6 Tao Yuan *Full-long* (yarn)

HUALON CORPORATION
Nylon 6 Chungho, Tao Yuan & Tou Fen (yarn)
Polyester Chungho, Tou Fen & Yim Kao *Hualon* (yarn & staple)

HUNG CHOU CHEMICAL INDUSTRY COMPANY, LTD.
Polyester Kwei Shan *Hunvira* (yarn)

JANG DAH NYLON INDUSTRIAL CORP., LTD.
Nylon 6 Hsin Tien *Yuan Pao* (yarn)

NAN-YA PLASTIC CO., POLYESTER FIBER DIVISION (part of Formosa Plastics Group)
Polyester Tai Shan *Tairilin* (yarn & staple)

SAN YUAN HSING ENTERPRISE COMPANY
Nylon 6 Kaosiung (monofil - captive)

SHINKONG SYNTHETIC FIBERS CORPORATION
Polyester Tao Yuan *Shinlon* (yarn & staple)

SYNTHETIC FIBER MILLS CORPORATION
Nylon 6 Tao Yuan *Synlon* (yarn)

TA MING FIBERS INDUSTRIAL CORPORATION
Nylon 6 Tao Yuan *Ta Ming Nylon* (yarn)
Polyester Tao Yuan *Poylon* (yarn)

TAINAN SPINNING CO., LTD.
Polyester Tainan & Tao Yuan *Nanlon* (yarn)

TAIWAN (continued)

TONG HWA SYNTHETIC FIBER CO., LTD.
Acrylic Chu Pei *Townflower* (staple & tow)

TUNG HO SPINNING WEAVING & DYEING CO., LTD.
Polyester Tainan *Pearlylene* (staple)

TUNTEX DISTINCT CORP.
Polyester Hsin Su *Tuntex* (yarn & staple*)

UNITED SYNTHETIC FIBERS CORPORATION
Polyester Tao Yuan *King Long* (staple)

VANLON FIBERS INDUSTRIAL CORPORATION
Nylon 6 Tao Yuan *Vanlon* (yarn)
Polyester Tao Yuan *Vanlon* (yarn)

YU HO FIBER INDUSTRIAL CORPORATION
Polyester Tao Yuan *Luxlen* (yarn)

OLEFIN FIBER

CHIA YANG INDUSTRIAL CO., LTD. Hsi-Chih (P monofil)

CHIEN SUN PLASTIC INDUSTRIAL CO., LTD. Hsin-Chu (E & P film)

CHINA FOLEX CORPORATION Shih-Lin (E & P monofil)

CHUNG KUANG PLASTIC CO., LTD. Chang-Hua (E & P film)

FULLMARK INDUSTRIAL CO., LTD. Hsin-Chu (E & P monofil)

FUU WON CHEMICAL INDUSTRIAL CO., LTD. Tu-Chen (P yarn)

HSIEH CHIN FISHING NET COMPANY, LTD. Kaohsiung *Hsieh Chin* (E monofil - captive)

HUNG FENG ENTERPRISE CO., LTD. Yang-Mei (P monofil)

IEN YI FIBER INDUSTRIAL CO., LTD. Chi-Do Goble (E monofil)

JUI I CHEMICAL INDUSTRIAL CO., LTD. Tou-Yuan (E & P monofil)

KUO HSIANG ENTERPRISE CO., LTD. Yang-Mei (E & P monofil)

LIEN FU CHEMICAL COMPANY LTD. Tou-Fen (E & P monofil)

MEI LON FIBER CO., LTD. Chang-Hua (E monofil)

PAO TSUNG TAI INDUSTRIAL COMPANY LTD. Tainan (P film)

POLON FIBER INDUSTRIAL CO., LTD. Chung-Li (P monofil)

SAN YANG INDUSTRIAL COMPANY LTD. Nei Hu Hsiang (P film)

TAI YEE CHEMICAL INDUSTRIAL CO., LTD. Chung-Li (E & P monofil)

TAIWAN (continued)

UNITED FIBER INDUSTRIAL CO., LTD. Chung-Li (E & P monofil)

YAO CHENG PLASTIC CO., LTD. Pan-Chiao (P yarn)

TANZANIA

SUN FLAG TEXTILE KNITWEAR MILLS LTD.
Polyester Arusha (yarn)

THAILAND

ASIA FIBER CO., LTD.
Nylon 6 Samut Prakam *AFC* (yarn)

HANTEX CORPORATION LTD.
Nylon 6 Mahacha, Samut Sakom (yarn)

ORIENTAL FIBRE
Polyester Samut Sakom (yarn)

TEIJIN POLYESTER (THAILAND) LTD.
Polyester Pathumthani, Bangkok *TEIJIN TETORON* (yarn & staple)

THAI MELON POLYESTER CO. LTD.
Polyester Pathumthani, Bangkok (yarn & staple)

THAI RAYON CO., LTD.
Rayon Ang Thong (staple)

TORAY NYLON THAI COMPANY
Nylon 6 Bangkhen, Bangkok *TNT* (yarn & monofil)
Polyester Bangkhen *TNT* (yarn)

TURKEY

AKRILIK KIMYA SANAYII A.S. (AKSA)
Acrylic Yalova *Aksa* (staple)

DUSA
Nylon 6 Izmit (yarn)

FILAMENT SENTETIK IPLIK VE ELYAF SANAYII A.S.
Polyester Bursa *Filament* (yarn & staple)

GEMLIK SUNI IPEK VE VISKOZ MAMULLERI SANAYII MUESSESESI (GEMLIK ARTIFICIAL SILK & VISCOSE PRODUCTS INDUSTRY) (Operated by the Sumerbank)
Rayon Gemlik (yarn & staple)

INSA ISTANBUL NAYLON SANAYII A.S.
Nylon 6 Istanbul *Islon* (yarn)
Polyester Istanbul (yarn)

M.N. SABUNCU
Polyester Adana *MNS* (yarn) (idle)

NERGIS A.S.
Polyester Bursa (yarn)

TURKEY (continued)

POLYLEN SENTETIK IPLIK SANAYII A.S.
Polyester Bursa *Polylene* (yarn)

SANCAK TUL SANAYII LTD., STI.
Polyester Istanbul *Lalelen* (yarn) (idle)

SASA SUNI VE SENTETIK ELYAF SANAYII A.S.
Polyester Adana *Perilon* (yarn & staple)

SENTETIK IPLIK FABRIKALARI, A.S. (SIFAS) (SYNTHETIC YARN FACTORIES CORPORATION)
Nylon 6 Bursa *SIFAS* (yarn & staple)
Nylon 66 Bursa (yarn)
Polyester Bursa (yarn & staple)

SISAS
Polyester Canakkale* (yarn)

TEKSTIPLIK SANAYII VE TICARET A.S.
Nylon 6 Edime *Dimlon* (yarn)

YALOVA ELYAF VE IPLIK SANAYII VE TICARET A.S.
Acrylic Yalova *Yalova* (staple & tow)
Modacrylic Yalova *Yalova* (staple & tow)

OLEFIN FIBER

BEZCI ELYAF SANAYII A.S. Istanbul

DINARSU ELYAF SANAYII A.S. Cerkezkoy, Tekirdag (P staple)

ELSAN ELYAF SANAYII VE TICARET A.S. Istanbul (P staple)

HALICIOGLU ELYAF SANAYII A.S. Haskoy, Istanbul (P staple)

SESAS ELYAF SANAYII A.S. Istanbul

GLASS FIBER

CAM ELYAF SANAYII A.S. Cayirova-Gebze (Izmit)

UNION OF SOVIET SOCIALIST REPUBLICS

RAYON PLANTS reported at:
Balakovo, Barnaul, Cherkassy (Ukraine), Kalinin, Kamensk, Kiev, Klin, Krasnoyarsk, Leningrad, Mogilev, Ryazan, Saratov, Sokol, Sverdlovsk and Svetlogorsk.
ACETATE PLANTS reported at:
Engels, Fergana, Kirovakan and Moscow.
NYLON PLANTS reported at:
Barnaul, Chernigov, Daugavpils, Engels, Grodno, Kemerovo, Kiev, Klin, Leningrad, Rustavi, Shchekino and Zhitomer.
NONCELLULOSIC FIBER PLANTS reported at:
Kursk (polyester), Blagoveshchensk (polyester*), Kustanay (vinyon), Minsk (polyester), Mogilev (polyester), Navoi, Polotsk and Saratov(acrylic+modacrylic), Svetlogorsk (polyester).
GLASS FIBER PLANTS reported at:
Astrakhan, Kalinin, Khabarovsk, Leningrad, Mingechaur, Moscow, Polotsk, Salavat, Saratov, Sevan and Severodonetsk.

UNITED KINGDOM

COURTAULDS FIBRES LTD.

Acrylic	Grimsby, South Humberside *Courtelle* (staple & tow) *Sekril* (high modulus staple)
Modacrylic	Coventry, West Midlands *Teklan* (staple & tow)
Polyacrylate	Coventry, *Inidex* (staple)
Rayon	Grimsby (staple & tow)
Acetate	Coventry; Spondon, Derbyshire *Dicel* (yarn, staple & tow)
Triacetate	Coventry & Spondon *Tricel* (yarn & staple)

DEAN DOVE LTD.

Polyester	Stanley, Durham (yarn)

DU PONT (U.K.) LTD.

Spandex	Maydown, Londonderry, N. Ireland *Lycra* (fused multifil)

ECTONA FIBRES LTD.

Acetate	Siddick, Workington (cigarette tow)

HOECHST FIBRE INDUSTRIES U.K. LTD.

Polyester	Limavady, Londonderry, N. Ireland *Trevira* (yarn & monofil)

ICI FIBRES (part of ICI Chemicals and Polymers Ltd.)

Biconstituent	Pontypool, Gwent , Wales; Workington, Cumbria *Cambrelle, Floratex, Terram* (melded fabrics)
Nylon 66	Doncaster, Yorkshire; Gloucester, Gloucestershire; & Pontypool *Bri-Nylon, Qazul, Quintesse, Tactel, Tacresse, Tendrelle, Timbrelle* (yarn, staple & tow)
Polyester	Pontypool & Wilton, Yorkshire *Limbaki, Mitrelle, Terinda, Terylene* (yarn, staple & tow)

NYMOFIL PLC

Nylon 6/66	Poulton-le-Fylde, Lancashire (monofil)
Polyester	Poulton-le-Fylde (monofil)

PENNINE FIBRE INDUSTRIES LTD.

Polyester	Bradford, West Yorkshire (staple & tow)

PERI-LUSTA PLC

Nylon 6/66	Leek, Staffordshire (monofil)

OLEFIN FIBER

BELFAST ROPEWORK CO. PLC Belfast, N. Ireland *Bluebell* (E & P monofil, P yarn, staple & film)

CROMPTON AND BROTHERS Bury, Lancashire (P staple)

DON & LOW (HOLDINGS) LTD. Forfar, Angus, Scotland (P yarn, monofil, staple & film)

F. DRAKE (FIBRES) LTD Golcar, Huddersfield, Yorkshire *Gymlene* (P staple)

F. DRAKE & CO. OF GOLCAR LTD. Golcar, Huddersfield (P yarn)

UNITED KINGDOM (continued)

HALL'S BARTON ROPERY LTD. Hull, Yorkshire (P film and E & P monofil)

WM. HALLEY & SONS (MFG.) LTD. Dundee, Angus, Scotland

THE HAWKINS AND TIPSON GROUP Hailsham, East Sussex (P staple & film)

McCLEERY L'AMIE GROUP PLC Belfast, N. Ireland (P yarn)

PLASTICISERS LTD. Drighlington, Yorkshire *Drylene* (E monofil); *Charisma, Duron, Fibrite, Tritor* (P yarn, monofil, film & staple)

POLYOLEFINE FIBRES & ENGINEERING LTD. Bradford, Yorkshire *Downspun* (P staple)

SAMSON YARNS Saintfield, N. Ireland (P yarn)

OLEFIN FILM FIBER, only

AMOCO FABRICS & FIBERS CO., DIVISION OF AMOCO (U.K.) PLC Consett, Durham

BONAR TEXTILES Dundee, Angus, Scotland

BRIDON FIBRES & PLASTICS LTD. Gateshead & Sunderland, Durham & Wallsend, Northumberland *Broplene, Red Star, Viking*

FLEMING'S ROPE & TWINES (WOOLSTON) PLC Warrington, Lancashire

POLYTAPE PLC Dundee, Angus, Scotland *Propafil, Propatape*

ROKO CONTAINERS LTD. Nottingham

ROTHES PLASTICS PLC Glenrothes, Fife, Scotland

SCOTT & FYFE LTD. Tayport, Fife, Scotland

A.G. SCOTT TEXTILES LTD. Dundee, Angus, Scotland

SMITH & NEPHEW TEXTILES LTD. Newhey, near Rochdale, Lancashire *Polyweave*

SYNTHETIC INDUSTRIES (IRELAND) LTD. Newry, Down, N. Ireland

GLASS FIBER

FIBREGLASS PLC (Subsidiary of Pilkington Brothers PLC) Wrexham, Clwyd, Wales *Fibreglass*

T GLASS FIBRES PLC Camberley, Surrey & Hindley Green, Lancashire

FIBREGLASS-REGINA, a joint venture of FIBREGLASS PLC and the BBA GROUP PLC, is producing textile glass tissue (voile) at Liversedge and St. Helens, Merseyside.

UNITED STATES OF AMERICA

ALBANY INTERNATIONAL - MONOFILAMENT PLANT •

Fluoro	Homer, NY *Halar, Kynar, Tefzel* (monofil)
Nylon 6, 66 & 612	Homer (monofil)
Polyester	Homer (monofil - regular & hydrolysis-resistant)

ALLIED/SIGNAL FIBERS DIVISION •

Nylon 6	Columbia, SC & Chesterfield, VA *A.C.E., Anso, Anso-IV, Anso IV HP, Anso-Tex, AnsoV Worry-Free, Anso X, Capima, Caplana, Caprolan, Caprolan 2000, Caprolan 2000 SeaGard, Caprolan 2000 StayGard, Captiva, Compet, Creme De Captiva, Hydrofil, Patina, TEC* (yarn, monofil & staple)
Polyester	Moncure, NC *A.C.E., A.C.E. SeaGard, Compet, StayGard* (yarn & monofil)

AMERICAN CYANAMID COMPANY, FIBERS DIVISION

Acrylic	Milton, FL *Creslan* (staple & tow)

AMETEK INC., SPECIAL FILAMENTS DIVISION •

Nylon 6, 66, 612 & 11	Odenton, MD (monofil)
Polyester	Odenton (monofil)
Saran	Odenton (monofil)

AVTEX FIBERS INC. •

Polyester	Lewistown, PA *Avlin* (yarn)
Rayon	Front Royal, VA *Avril* (ind yarn & staple)

BASF CORPORATION FIBERS DIVISION

Acrylic	Williamsburg, VA *Zefran, Zefkrome* (staple)
Nylon 6	Enka, NC, Anderson & Central, SC and Lowland, TN *Crepeset, Vivana, Zefsport, Zeftron, Zeftron 500,* (yarn & staple)
Polyester	Lowland *Golden Glow, Golden Touch, Silky Touch, Strialine, Ultra Touch* (yarn)
Rayon	Lowland *Zantrel, Zantrel Plus™* (staple)

BERKLEY & CO., INC. •

Nylon 6	Spirit Lake, IA (monofil)

CAMAC CORPORATION •

Nylon 6	Bristol, VA *Camalon* (yarn)

COLOR-FI, INC.

Nylon	Sumter & Trenton, SC (staple & tow)
Polyester	Sumter & Trenton (staple & tow)

CONCORDE FIBERS, INC. •

Nylon 6	Jamestown, SC (yarn)

CORTLAND LINE COMPANY, INC.

Nylon 6	Cortland, NY (monofil - captive)

UNITED STATES OF AMERICA (continued)

COURTAULDS NORTH AMERICA INC.

Nylon 6	Le Moyne, Mobile County, AL *Courtaulds, Shareen* (yarn & monofil)
Rayon	Le Moyne (staple)

DORSETT CARPET MILLS INC. •

Nylon 6	Chatsworth, GA (yarn)

E.I. DU PONT DE NEMOURS & COMPANY (INC.) •

FABRICATED PRODUCTS DEPARTMENT

Nylon 6, 66, 612 & Polyester	Parkersburg, WV *Dacron, Dymetrol, Tynex, Vylor* (monofil of 0.002 in. diameter and greater)

TEXTILE FIBERS DEPARTMENT •

Acrylic	Camden, SC & Waynesboro, VA *Orlon* (staple & tow)
Aramid	Richmond, VA *Kevlar* (yarn), *Nomex* (yarn, staple & tow)
Nylon 66	Seaford, DE, Camden, SC, Chattanooga, TN and Martinsville, Richmond & Waynesboro, VA *Antron, Cantrece, Cordura, Du Pont, Hyten, Supplex* (yarn, monofil, staple & tow)
Polyester	Kinston & Wilmington, NC, Camden & Charleston, SC and Old Hickory, TN *Dacron, Hollofil* (yarn, staple, tow & fiberfill), *Sontara* (spunlaced)
Spandex	Waynesboro *Lycra* (fused multifill or coalesced monofil)

EASTMAN KODAK COMPANY - TENNESSEE EASTMAN COMPANY

Acetate	Kingsport, TN (yarn)
Polyester	Kingsport, TN *Kodel* (staple)

CAROLINA EASTMAN COMPANY

Polyester	Columbia, SC *Kodel* (staple)

FIBER INDUSTRIES

Polyester	Fayetteville, NC & Darlington, SC *Fortrel* (yarn & staple)

FIRESTONE FIBERS & TEXTILES COMPANY, DIVISION OF FIRESTONE TIRE & RUBBER COMPANY

Polyester	Hopewell, VA (yarn)

FOSS MANUFACTURING CO., INC. •

Polyester	Haverhill, MA (staple - captive)

GLOBE MANUFACTURING CO.

Spandex	Fall River, MA & Gastonia, NC *Cleerspan, DC-*$_{100}$ *DC-*$_{700}$ *Glospan* (fused multifil)

THE GOODYEAR TIRE & RUBBER COMPANY, POLYESTER DIVISION

Polyester	Scottsboro, AL & Point Pleasant, WV (yarn - captive)

HANOVER FIBERS DIVISION, GUILFORD MILLS, INC.

Nylon 6	Gainesville, GA (monofil)
Polyester	Fuquay-Varina, NC (yarn & monofil)

UNITED STATES OF AMERICA (continued)

HOECHST CELANESE CORPORATION

Acetate	Rock Hill, SC and Celriver & Narrows, VA *Celco* (yarn, staple & tow)
Polyester	Salisbury & Shelby, NC and Spartanburg, SC *Angelette, Ceylon, Comfort Fiber, ESP, Loftguard, PolarGuard, Serene, Superba, Trevira* (yarn, monofil, staple, tow, fiberfill & spunbonded)
PBI	Rock Hill (staple)

JOHNSON FILAMENTS, INC. • (subsidiary of JWI Ltd.)

Nylon 6/66	Williston, VT (monofil)
Polyester	Williston (monofil)

KAYSER-ROTH HOSIERY INC.
YARN PROCESSING DIVISION

Nylon 66	Creedmoor, NC (yarn - captive)

MKS COMPANY INC.

Polyester	Elizabethton, TN (staple)

MONOFILAMENTS, INC.

Nylon 6/66	Waynesboro, VA (monofil)
Polycarbonate	Waynesboro (monofil)
Polyester	Waynesboro (monofil)

MONSANTO CHEMICAL COMPANY
FIBERS AND ENGINEERED PRODUCTS DIVISION

Acrylic	Decatur, AL *Acrilan Acrilan II, Bi-Loft, Fi-Lana II, Pa-Qel, So-Lara , So-Qel* (staple & tow)
Modacrylic	Decatur *SEF, SEF Plus* (staple & tow)
Nylon 66	Pensacola, FL & Greenwood, SC *No-Shock, Ultron* (yarn, monofil & staple)

NORTH AMERICAN RAYON CORPORATION

Rayon	Elizabethton, TN (ind & reg yarn & tow)

REEMAY, INC. •

Polyester	Old Hickory, TN *Reemay* (spunbonded)

SHAKESPEARE COMPANY, MONOFILAMENT DIVISION •

Nylon 6/66 & 610	Columbia, SC (monofil)
Polyester	Columbia (monofil)

STAR FIBERS, INC.

Nylon 6	Edgefield, SC *Starbrite* (staple)

SUNSHINE CORDAGE CORPORATION •

Nylon 6	Miami, FL *Sunylon* (yarn)

TOLARAM FIBERS, INC.•

Nylon 6.6	Ansonville, NC (yarn)
Polyester	Ansonville & Asheboro (yarn)

WELLMAN, INC., MAN-MADE FIBER DIVISION

Nylon 6 & 66	Johnsonville, SC *Wellon, Wellstrand* (staple, tow & tops)
Polyester	Johnsonville *Fillwell, Wellene, Wellstrand* (staple & tow)

UNITED STATES OF AMERICA (continued)

YKK ZIPPER CO.

Polyester	Macon, GA (yarn)

OLEFIN FIBER

ACS INDUSTRIES, INC. Woonsocket, RI (P yarn & multifil)

ALADDIN MILLS, INC. Dalton, GA (P yarn)

ALBANY INTERNATIONAL - MONOFILAMENT PLANT Homer, NY (P monofil)

ALLIED/SIGNAL, FIBERS DIVISION Chesterfield, VA *Spectra-900, Spectra-1000* (E yarn)

AMERICAN MANUFACTURING COMPANY
LAFAYETTE ROPE DIVISION Lafayette, LA *Amco, American, Bondtie, Floterope, Ultraline* (E & P monofil & film)

AMERICAN POLYCRAFT Dalton, GA (P yarn & film)

AMETEK INC., SPECIAL FILAMENTS DIVISION Odenton, Md (E & P monofil)

AMOCO FABRICS & FIBERS COMPANY Andalusia & Roanoke, AL, Bainbridge, Hazlehurst & Nashville, GA, Salisbury, NC & Afton, VA *Amoveve, Condesa, Genesis, Marquésa Lana, Marquésa Lana ST, Patlon, Patlon Plus, Propex III, Synera* (P yarn, monofil, film & staple)

ARLIN MFG. CO., INC. Lowell, MA (P film)

ARMSTRONG WORLD INDUSTRIES, INC. Charlotte, NC (P film - captive)

AVTEX FIBERS INC. Front Royal, VA (P staple)

BEAULIEU OF AMERICA Dalton, GA (P yarn)

BERKLEY & CO. INC. Spirit Lake, IA (E & P monofil - captive)

BLUE MOUNTAIN EXTRUSIONS Anniston, AL *Gold Medal, Poly Autotwine, Poly Macramé, Polylasting, TY-EZ Polytape, Tylon, Tytite* (E & P film cordage)

BRIDON CORDAGE INC. Albert Lea, MN (P film cordage)

BURLINGTON INDUSTRIES, INC. Greensboro, NC (P yarn)

CALIFORINA WEBBING INDUSTRIES, INC. Los Angeles, CA (P yarn)

CAMAC CORPORATION Bristol, VA (P yarn)

CHASE PACKAGING CORPORATION Portland, OR (P film & industrial goods)

CIRTEX Dalton, GA (P film)

COLUMBIAN ROPE COMPANY Guntown, MS *Polypro 6* (E & P monofil & film)

CONCORDE FIBERS, INC. Jamestown, SC (P yarn)

UNITED STATES OF AMERICA (continued)

CROWE ROPE COMPANY Warren, ME *Crowelon* (P monofil & film)

CUMBERLAND MILLS, INC. Dalton, GA (P yarn)

CUTLASS CARPET CO. Dalton, GA (P yarn)

DIAMOND MILLS, INC. Eton, GA (P yarn & film)

DORSETT CARPET MILLS INC. Chatsworth, GA (P yarn)

E.I. DU PONT DE NEMOURS & COMPANY (INC.), TEXTILE FIBERS DEPT. Richmond, VA *Tyvek* (E spunbonded)

ELIZABETH WEBBING MILLS CO., INC. Central Falls, RI (P yarn & film)

ENSIGN-BICKFORD INDUSTRIES, INC., FILM FIBERS DIVISION Simsbury, CT (P film)

EXXON CHEMICAL AMERICAS, INDUSTRIAL TEXTILES DIVISION Kingman, KS and Summerville, SC (P monofil & film)

FIBERS & FABRICS OF GEORGIA, INC. (subsidiary of Georgia Synthetics, Inc.) Elberton, GA (P yarns, fibrillated, roll embossed filaments & ribbon yarn)

FIBRES SOUTH, INC. Trussville, AL *Polystar, Trustite, Tyrite* (P film, monofil, tapes & staple)

FILAMENT FIBER TECHNOLOGY INCORPORATED Lakewood, NJ and Salisbury, NC (P yarn)

FNT INDUSTRIES INC. Menominee, MI (E monofil)

FOSS MANUFACTURING CO., INC. Haverhill, MA (P staple - captive)

GENERAL FIBERS & FABRICS, INC. La Grange, GA (P film)

GEORGIA SYNTHETICS, INC. Elberton, GA (P film carpet backing)

GFF HOLDING COMPANY (formerly N.S.I., INC.) Soperton, GA (P film - captive)

HERCULES INCORPORATED, HERCULES ENGINEERED POLYMERS COMPANY Oxford, GA *Herculon, Nouvelle* (P yarn & staple)

THE HOOVEN & ALLISON COMPANY Xenia, OH (P film)

INTEGRATED PRODUCTS, INC. Rome, GA (P staple)

J & J INDUSTRIES Dalton, GA (P yarn)

JAMES RIVER CORPORATION (formerly Crown Zellerbach Corp.) Washougal, VA (P spunbonded)

JOHNSON FILAMENTS Williston, VT (P monofil)

UNITED STATES OF AMERICA (continued)

KIMBERLY-CLARK CORPORATION Corinth, MS, Balfour, NC, La Grange, GA & Neenah, WI *Accord, Duraguard, Evolution* (P spunbonded);*Cyclean, Evolution III* (P spunbonded/meltblown & laminate)

LAMBETH CORPORATION New Bedford, MA *Lambeth* (E & P monofil)

LAWRENCE HOSE COMPANY Burlington, NC (E monofil - captive)

LORETEX, DIVISION OF OIVIND LORENTZEN, INC. Guilderland Center, NY (E film - captive)

MIRAFI INC (subsidiary of Dominion Textiles) Moultrie, GA (P film - captive)

THE OSTERNECK COMPANY Lumberton, NC (P film)

PHILLIPS FIBERS CORPORATION (subsidiary of Phillips 66 Company) Rocky Mount, NC, Seneca & Spartanburg, SC *Marvess* (P yarn, staple & tow) *Ryton* (sulfar - staple)

POLYLOOM CORPORATION OF AMERICA Dayton, TN *Polyloom* (P split film)

RANGER TEXTILE CORP. (formerly Gladding Cordage Corp.) South Otselic, NY (P monofil)

REEMAY, INC. Old Hickory, TN *Typar* (P spunbonded)

SARLON INDUSTRIES, INC. Miami, FL (P monofil & film)

SHAKESPEARE MONOFILAMENT DIVISION Columbia, SC (P monofil)

SHUFORD MILLS, INC. Hickory, NC (P film cordage & twine)

SOLUTION FIBERS, INC. Lafayette, GA (P yarn)

SOUTHERN WEAVING, INC. Greenville, SC (P yarn)

STEVENS FIBER DIVISION, STEVENS LINEN ASSOC., INC. Dudley, MA (P staple)

SUNSHINE CORDAGE CORPORATION Miami, FL (E & P monofil, cordage)

SYNTHETIC INDUSTRIES Chickamauga & Dalton, GA (P film, yarn & staple)

SYNTHETIC INDUSTRIES, FIBRON DIVISION Chattanooga TN *Fibri-Cord, Fibri-Knit, Fibrilawn, Fibrilon* (P film)

TECHLON FIBERS CORPORATION Dalton, GA (P yarn)

TECHNOTRADE Dalton, GA (P yarn)

TOLARAM FIBERS, INC. Ansonville, NC (P yarn)

TRUSTITE DIVISION OF FIBRES SOUTH, INC. Clearfield, UT *Trustite, Tyrite* (P film)

UNITED STATES OF AMERICA (continued)

TWINE PRODUCTS CORPORATION New Orleans, LA (P film)

UNITED STATES ROPE COMPANY Menlo Park, CA (P monofil)

WALL INDUSTRIES, INC. Granite Quarry, NC (E & P monofil, rope & cordage)

WALTRICH PLASTIC CORPORATION Walthourville, GA (P monofil)

WAYN-TEX, INC. Waynesboro, VA *Beamette, Wayntuf* (E & P monofil & P film - captive)

WELLINGTON PURITAN MILLS (MONTAIR DIV.) Pilot Mountain, NC *Pur-Ty, Welltite* (P yarn & E & P monofil & film)

WELLINGTON SYNTHETIC FIBRES, INC. Leesville & Summerville, SC (P yarn & monofil)

TEXTILE PRODUCTS FROM OLEFIN

CONTINENTAL (P yarn)

CONWED CORP. Conwed Plastic Netting (P embossed film for netting)

DICEY (P yarn)

E.I. DU PONT DE NEMOURS & COMPANY (INC.) (E & P embossed film for netting)

NALLE, INC. (P embossed film for netting)

RIEGEL PRODUCTS CORPORATION *Polyweb* (P meltblown)

THE 3M COMPANY (P spunbonded)

GLASS FIBER

CERTAINTEED CORPORATION, FIBER GLASS REINFORCEMENTS DIVISION Wichita Falls, TX *RO99, Satin Glass, Stichmat, Unifilo* (roving, woven roving, mat, chopped strand & combination product)

FIBER GLASS INDUSTRIES, INC. Amsterdam, NY (roving & woven glass reinforcements)

GAF, BUILDING MATERIALS DIVISION Irwindale, CA (chopped), Nashville, TN (chopped)

GFT (GLASS FIBER TECHNOLOGY) Chester, SC (wet chopped for shingles)

LUNDY TECHNICAL CENTER Pompano Beach, FL *RoMHOglas* (metallized glass fiber roving, strand & mat)

MANVILLE SALES CORPORATION Waterville, OH & Etowah, TN *Chop-Pak, Dura-Glass, Star Stran, Star Rov , Tempstran* (chopped strand, mat, microfibers, sliver & roving)

NICOFIBERS INC. Shawnee, OH *Conformat, Consurmat, Surmat* (mat)

UNITED STATES OF AMERICA (continued)

NITTOBO-SCHWEBEL CORPORATION* (Yarn)

OWENS-CORNING FIBERGLAS CORPORATION Huntingdon, PA, Aiken & Anderson, SC and Amarillo, TX *Beta, Bi-Ply, Fiberglas, S-Glass, S-2 Glass* (yarn, roving, woven roving, mat, chopped & milled)

PPG GLASS FIBERS LTD. Lexington & Shelby, NC (yarn, roving, mat, chopped strand, woven roving & rubber reinforcement)

SUPERIOR GLASS FIBERS, INC. Bremen, OH (mat)

URUGUAY

HILADOS SINTETICOS S.A. (HISISA)
Nylon 66 — Estacion Manga, Montevideo *Hisilon* (yarn)

POLIMEROS URUGUAYOS S.A.
Polyester — San José, San José (staple)

SINTETICOS SLOWAK S.A.
Nylon 6 — Montevideo *Crofil* (yarn & monofil)

SINTETICOS SLOWAK S.A. (continued)
Nylon 66 — Montevideo *Hisilon* (yarn)
Polyester — Montevideo *Terpol* (yarn)

SUDAMTEX del URUGUAY S.A.
Acetate — Colonia (yarn)

OLEFIN FIBER

ARYN S.A. Montevideo (E monofil)

CINCA S.A. Montevideo (E film)

ELABORADORA DE ARPILLERA SINTETICA S.A. (E film)

VENEZUELA

C.A. INVERSIONES ARAGUA
Nylon 6 — Maracay *Sudalon* (yarn)

GOMELAST, C.A.
Spandex — Caracas *Spandaven* (yarn)

HILADOS FLEXILON
Nylon 6 — Caracas (yarn)
Polyester — Caracas (yarn)

MANTEX, C.A.
Acetate — Valencia (yarn)
Polyester — Maracay, Valencia *Fortrel* (yarn & staple)

SUDAMTEX DE VENZUELA, C.A.
Polyester — Maracay (yarn & staple)

YUGOSLAVIA

HEMTEKS

Polyester	Skopje, Macedonia *Maklen* (yarn & staple)

INCEL FABRIKA CELULOZE I VISKOZE

Polyester	Banja Luka, Bosna i Hercegovina *Belira* (yarn)
Rayon	Banja Luka (staple)

INDUSTRIJA SINTETICKIK VLAKANA (PROGRES)

Nylon 6	Prizren, Kosovo Mitohijan *Supralon* (yarn)
Polyester	Istok, Kosovo Mitohijan & Prizren *Prizrenit* (yarn)

KEMICNA TOVARNA MOSTE

Nylon 6	Ljubljana, Slovenia *Yulon* (yarn)

ORGANSKO HEMIJSKA INDUSTRIJA SKOPJE (OHIS)

Acrylic	Skopje, Macedonia *Makrolan, Malon* (staple)

TEKSTILNA INDUSTRIYA "ZELE VELJKOVIC"

Nylon 6	Leskovac* (yarn & staple)

VARAZDINSKI TEKSTILNI KOMBINAT (VARTEKS)

Polyester	Varazdin (staple)

VISKOZA

Rayon	Loznica, Serbia (ind & reg yarn & staple)

OLEFIN FIBER

HEMIJASKA INDUSTRIJA U OSNIVANJU Belgrade (P staple)

GLASS FIBER

GOSTIVAR STAKLARA Staklara (roving & mat)

WORLDWIDE MAN-MADE FIBER PRODUCER AFFILIATIONS & PERCENTAGE OF CAPITAL OWNERSHIP

Licensing and royalty agreements are not taken into account. The ownership of companies, other than man-made fiber producers, is not listed; e.g., weaving mills, chemical producers, etc.

For each country, the percentage following the first-named producer is the portion owned by the captioned company; the remainder of the entry shows other ownership. For example, Akzo N.V. owns 40% of Fibras Quimicas and Alfa-Group owns 60%.

AKZO N.V. (NETHERLANDS)

Brazil	Companhia Bahiana de Fibras 45%; others 55% Polyenka 51%; others 49%
Colombia	Enka de Colombia 49%; others 51%
Ecuador	Enkador 49%; others 51%
Germany, Fed. Rep.	Enka 97%; public 3%
India	Century Enka 40%; others 60%
Mexico	Fibras Quimicas 40%; Alfa-Group 60%
Netherlands	Enka 100% Silenka 33.33%; PPG Industries 33.33%; others 33.33%
Spain	La Seda 57%; others 43%

AMERICAN CYANAMID COMPANY (U.S.A.)

U.S.A.	Fibers Division 100%

AMOCO CHEMICALS CORPORATION (U.S.A.)

Australia	Amoco Fabrics & Fibers Co. 100%
Brazil	Amoco Fabrics & Fibers Co. 100%
Canada	Amoco Fabrics & Fibers Co. 100%
Germany, Fed. Rep.	Amoco Fabrics & Fibers Co. 100%
U.K.	Amoco Fabrics & Fibers Co. 100%
U.S.A.	Amoco Fabrics & Fibers Co. 100%

ASAHI CHEMICAL INDUSTRY CO. LTD. (JAPAN)

India	Baroda Rayon Corp. 1%; local interests 89%; others 10%
Indonesia	P.T. Indonesia Asahi Chemical 51%; others 19%; local interests 30%
Ireland	Asahi Synthetic Fibres (Ireland) 85%; others 15%
Japan	Asahi Chemical 100%
Korea, Rep. of	Tong Yang Polyester 50%; Tong Yang Nylon 50%

BASF CORPORATION

BASF Corporation owns 100% of BASF Corporation Fibers Division and owns 100% of BASF Fibres Inc.

BAYER A.G. (WEST GERMANY)

Belgium	Bayer Antwerpen N.V. 100%
Germany, Fed. Rep.	Bayer A.G. 100% Faserwerke Lingen G.m.b.H. 100%
Peru	Bayer Industrial S.A. 60%

COURTAULDS, PLC (U.K.)

France	Courtaulds S.A. 100%
Italy	Novaceta S.p.A. 50%; SNIA 50%
Spain	Courtaulds Fibres S.A. 100% INACSA 12%; public 88%
U.K.	Courtaulds Fibres Ltd. 100%
U.S.A./Canada	Courtaulds North America Inc. 100%

E. I. DU PONT DE NEMOURS & COMPANY (U.S.A.)

Argentina	Ducilo 82%; Bunge & Born 18%
Brazil	Du Pont do Brasil 100%
Canada	Du Pont Canada 75%; public 25%
Germany, Fed. Rep.	Du Pont de Nemours (Deutschland) 100%
Japan	Toray-Dupont 50%; Toray Industries 50%
Luxembourg	Du Pont Fibres 100%
Mexico	Nylon de Mexico 40%; Alfa-Group 51%; public 9%
Netherlands	Du Pont de Nemours (Nederland) 100%
U.K.	Du Pont (U.K.) 100%
U.S.A.	Textile Fibers Department 100% Polymer Products Department 100%

ENICHEM FIBRE S.p.A. (ITALY)

Italy	Carpol S.p.A. 100% Terbond S.p.A. 100%

FIRESTONE TIRE & RUBBER COMPANY (U.S.A.)

Canada	Firestone Textiles Co. 100%
U.S.A.	Firestone Fibers & Textiles 100%

HARBOUR GROUP LTD. (U.S.A.)

U.K.	Synthetic Industries (Ireland) PLC 100%
U.S.A.	Fibron Corp. of Tennessee 100% Synthetic Industries, Inc. 100% Synthetic Industries (Texas), Inc. 100%

HERCULES INCORPORATED (U.S.A.)

Italy	Moplefan 50%; Montedison 50%
U.S.A.	Hercules 100%

HOECHST A.G. (WEST GERMANY)

Austria	Austria Faserwerke; Hoechst Austria 51%; Lenzing 49%
Belgium	Hoechst Celanese 100%
Brazil	Hoechst Do Brasil Quimica e Farmaceutica S.A. 100%
Canada	Celanese Canada Inc. 56%; public 44%
Germany, Fed. Rep.	Hoechst A.G. 100% Zehlendorf 91%; others 9%
Mexico	Celanese Mexicana, S.A. 40%; public 60%
Portugal	Hoechst Portuguesa S.A.R.L. 100%
South Africa	Hoechst South Africa 100%
U.K.	Hoechst Fibre Industries 100%
U.S.A.	Hoechst Celanese Corporation 100%

IMPERIAL CHEMICAL INDUSTRIES LIMITED (U.K.)

Germany, Fed. Rep.	ICI Europa Fibres G.m.b.H. 100%
India	Chemicals & Fibres of India Ltd. 55%
Pakistan	ICI Pakistan Manufacturers 70%
Portugal	Finicisa-Fibras 50%; Francisco Fino Ltd. 50%
South Africa	S.A. Nylon Spinners (through AECI Ltd.) 38%
Spain	Nurel S.A. 50%; local interests 50%
U.K.	ICI Fibres 100%

KURARAY CO., LTD. (JAPAN)

Japan	Kuraray 100%

MITSUBISHI RAYON (JAPAN)

Japan	Mitsubishi Acetate 100% Mitsubishi Rayon 100%
Portugal	FISIPE 4%; Mitsubishi Corp. 9%; Quimigal 87%
Taiwan	Tong Hwa 19%; Mitsubishi Corp. 12%; others 69%

MONTEFIBRE S.p.A. (ITALY)

Italy	Industrie Tessili Vercelli S.p.A. 100% Società Industriale Cremonese S.p.A. 50%; others 50%
Spain	Montefibre Hispania S.A. 100%

OWENS-CORNING FIBERGLAS CORPORATION (U.S.A.)

Belgium	Owens-Corning Fiberglas Europe 100%
Brazil	OCFIBRAS 100%
Canada	Fiberglas Canada 49%; Duplate Canada 49%; local interests 2%
France	Owens-Corning Fiberglas Europe 100%
Japan	Asahi Fiber Glass 28%; Asahi Glass Co., Ltd. 72%
Mexico	Vitro-Fibras 40%; Vitro Group 60%
Norway	Owens-Corning Fiberglas Europe 70%; Elkem-Spigerverket 30%
Spain	Owens-Corning Fiberglas Europe 100%
Sweden	Owens-Corning Fiberglas Europe 100%
U.S.A.	Owens-Corning Fiberglas 100%

PPG INDUSTRIES (U.S.A.)

Netherlands	Silenka 33.33%; Akzo N.V. 33.33%; NOM 33.33%
U.S.A.	Fiber Glass Products 100%

PILKINGTON BROTHERS (U.K.)

Argentina	VASA 99.7%; Glaverbel/Boussois/local interests 0.3%
India	Fibreglass Pilkington 50%, plus 1 share; Indian interests 50%, less 1 share
South Africa	Fibreglass South Africa 24.5%; Owens-Corning Fiberglas (U.S.A.) 24.5%; Plate Glass & Shatterprufe Industries Ltd. 51%
U.K.	Fibreglass PLC 100%

RHÔNE-POULENC S.A. (FRANCE)

Argentina	Rhodia Argentina Química e Têxtil 100%
Brazil	Rhodia S.A. 100%; Rhodia Nordeste 99%
France	Rhône-Poulenc-Textile 99.9%; Rhône-Poulenc-Fibres 100%; Cellatex 100%; Rhovyl 100%
Germany, Fed. Rep.	Rhodia A.G. 100%
Spain	SAFA 60%
Switzerland	Viscosuisse (through Holva AG) 87%

SAINT-GOBAIN (FRANCE)

France	Saint-Gobain Industries 100%
Germany, Fed. Rep.	Gevetex-Textilglas 100%
Italy	Vetrotex Italia 100%
Spain	Cristaleria Espanola S.A. 69%
U.S.A.	CertainTeed Corp. 55%; others 45%

SNIA FIBRE (ITALY)

France	Ets. Nysam 100%
Italy	Novaceta 50%; Courtaulds (U.K.) 50% Nuova Raion Italia S.p.A. 34.7%; others 65.3%

TEIJIN LTD. (JAPAN)

Indonesia	P.T. Tifico 65.8%; Toyo Menka 16.5%; local interests 17.7%
Japan	Teijin 100% Teijin Acetate 100%
Korea , Rep. of	Sunkyung Fibres 4.2%; local interests 95.8%
Thailand	Teijin Polyester 45%; local interests 55%

TORAY INDUSTRIES, INC. (JAPAN)

Indonesia	P.T. Indonesia Toray Synthetics 59%; others 41%
Japan	Toray Industries 100%; Toray-Monofilament 100%; Toray-DuPont 50%, DuPont 50%
Korea, Rep. of	Cheil Synthetic Textiles 22.8%; others 77.2% Kolon Industries 19.3%; others 80.7%
Malaysia	Penfibre SDN. Berhad 100%
Thailand	Toray Nylon Thai 30%; others 70%

WELLMAN, INC. (U.S.A.)

Ireland	Wellman International 100%
U.S.A.	Man-Made Fiber Division 100%

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TABLE 10:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

	1988												YEAR TO DATE	
ITEMS & COUNTRY	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	**1988**	**1987**
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	0	0									0	181
BRAZIL	54	0	28	55									137	143
CANADA	426	481	507	292									1706	1291
GERMANY, FED. REP.	353	635	281	227									1496	1595
JAPAN	277	131	45	121									574	297
MEXICO	62	53	18	81									214	130
NETHERLANDS	190	229	228	289									936	396
ALL OTHER COUNTRIES [a]	11	1	21	67									100	5
TOTAL CELLULOSIC YARN	**1373**	**1530**	**1128**	**1132**									**5163**	**4038**
CELLULOSIC STAPLE+TOW														
CANADA	1086	774	974	797									3631	4523
ITALY	34	73	19	0									126	198
JAPAN	99	0	91	46									236	413
SWEDEN	0	41	45	0									86	91
UNITED KINGDOM	57	0	79	54									190	148
ALL OTHER COUNTRIES [b]	28	0	10	51									89	74
TOTAL CELLULOSIC STAPLE+TOW	**1304**	**888**	**1218**	**948**									**4358**	**5447**
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436	1117	1665	894									5112	3904
CANADA	1448	1872	2220	2156									7696	6084
CHINA, PRC	0	10	1	0									11	94
COSTA RICA	606	570	654	533									2363	2475
DENMARK	0	0	0	0									0	93
FRANCE	767	588	716	338									2409	2678
GERMANY, FED. REP.	1074	1355	1968	1078									5475	9302
IRELAND	37	34	74	114									259	139
ISRAEL	388	309	123	304									1124	734
ITALY	761	811	177	1678									3427	4614
JAPAN	648	212	729	277									1866	2893
KOREA, REP. OF	3	23	33	63									122	104
MEXICO	1428	2004	1547	978									5957	7670
NETHERLANDS	49	42	26	31									148	527
SINGAPORE	81	41	44	19									185	183
SWITZERLAND	32	0	5	11									48	321
TAIWAN	12	26	12	53									103	162
UNITED KINGDOM	676	753	220	632									2281	3069
ALL OTHER COUNTRIES [c]	172	234	201	406									1013	556
TOTAL NONCELLULOSIC YARN	**9618**	**10001**	**10415**	**9565**									**39599**	**45602**
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601	727	752	1321									3401	386
BELGIUM	35	0	18	18									71	93
BRAZIL	0	0	0	499									499	1053
CANADA	2003	2183	2981	2221									9388	11645
FRANCE	934	799	800	957									3490	2660
GERMANY, FED. REP.	2738	3040	2503	2478									10759	9602
IRELAND	80	123	162	325									690	109
ISRAEL	8	0	0	56									64	93
ITALY	130	362	145	241									878	7133
JAPAN	1963	2057	1894	2166									8080	8133
KOREA, REP. OF	1355	1516	1456	1580									5907	3151
MALAYSIA	0	95	48	48									191	238
MEXICO	303	549	210	502									1564	5426
ROMANIA	448	0	86	664									1198	1108
SWITZERLAND	102	21	153	189									465	510
TAIWAN	1986	1109	1425	1112									5632	7388
UNITED KINGDOM	1604	1503	2175	1920									7202	4843
ALL OTHER COUNTRIES [d]	52	30	48	48									178	244
TOTAL NONCELLULOSIC STAPLE+TOW	**14342**	**14114**	**14856**	**16345**									**59657**	**63815**

+ Less than 1 thousand pounds.

a. Morocco 46, United Kingdom 20, Singapore 18, Korea, Rep. of 11, Italy 4, Taiwan 1, France.

b. France 61, Australia 25, Germany, Fed. Rep. of 2, Belgium 1.

c. Romania 270, Brazil 206, Spain 146, Chile 133, Sweden 102, Australia 62, Argentina 56, Turkey 30, Austria 7, Vatican City 1, Greece, India.

d. Australia 93, Netherlands 40, Hong Kong 29, Spain 7, China, PRC 5, Egypt 3, Portugal 1, Philippines.

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TABLE 11:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND P[illegible]

ITEM	COMMODITY NUMBER AS OF 1/1/87													YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	[illegible]	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0	+	0	64									64	213
OTHER	310.0130 & .0230 a	1362	1468	1021	995									4846	3819
MONOFILAMENTS	309.0310 & .0610	0	+	0	1									1	5
STRIPS, $1/LB & UNDER	309.2000*	11	62	107	72									252	1
SUBTOTAL ABOVE		**1373**	**1530**	**1128**	**1132**									**5163**	**4038**
STAPLE	309.4320 & .4325	1182	890	1107	934									4111	5174
GROUPED FILAMENTS	309.3010 & .3310	122	0	111	14									247	273
SUBTOTAL ABOVE		**1304**	**890**	**1218**	**948**									**4358**	**5447**
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	0	+	0	0									+	7
NONCELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341	297	204	271									1113	541
450 DENIER AND OVER	310.0108 & .0208	1503	1643	1531	2018									6695	11825
- POLYESTER	310.0110 & .0210	989	1368	1024	881									4262	6312
- OTHER	310.0114 & .0214	2158	1830	2815	1920									8723	6582
OTHER - NYLON	310.0149 & .0249	1154	1567	1602	1249									5572	8827
- POLYESTER	310.0150 & .0250	2153	1631	1734	1657									7175	7339
- OTHER	310.0170 & .0270 b	762	1085	876	922									3645	2221
MONOFILAMENTS	309.0200 & .0330 c	381	384	307	374									1446	1081
STRIPS, OVER $1/LB	309.2100 & .2500*	177	196	322	273									968	874
SUBTOTAL ABOVE		**9618**	**10001**	**10415**	**9565**									**39599**	**45602**
STAPLE - NYLON	309.4331 & .4351	1696	1306	1915	2115									7032	18330
- POLYESTER	309.4336 & .4361	4653	5670	4716	4932									19971	20320
- ACRYLIC	309.4366	1214	953	1179	1399									4745	4542
- OLEFIN	309.4371	83	104	534	498									1219	235
- OTHER	309.4341 & .4390	1350	1625	1750	2008									6733	3627
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713	2877	3289	3284									13163	10327
POLYESTER	309.3040 & .3340	441	215	65	421									1142	1470
ACRYLIC	309.3050 & .3350	1086	1331	1249	1664									5330	4368
OTHER	309.3065 & .3365	106	33	159	24									322	596
SUBTOTAL ABOVE		**14342**	**14114**	**14856**	**16345**									**59657**	**63815**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940	1991	1933	1842									8706	9015
- POLYESTER	309.6630	550	487	1073	637									2747	4242
- ACRYLIC	309.6645	0	0	21	110									131	91
- OTHER	309.6660	221	273	392	157									1043	2158
NOILS & GARNETTED FIBERS	309.7000*	80	0	0	33									113	0
OTHER WASTE, ADVANCED	309.7525 - .7555	596	596	637	323									2152	900
SUBTOTAL ABOVE		**4387**	**3347**	**4056**	**3102**									**14892**	**16406**
TOTAL MAN-MADE ABOVE		**31024**	**29882**	**31673**	**31092**									**123669**	**135315**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0									+	+
- NONCELLULOSIC	310.1015d & .1205e	340	110	184	216									850	1399
OTHER - CELLULOSIC	310.1030 & .1535 f	15	21	5	34									75	213
- NONCELLULOSIC	310.1050 & .1070 g	276	262	305	289									1132	1266
SPUN YARN - CELLULOSIC	310.4005 & .4030 h	62	95	137	23									317	562
- OTHER	310.4015 & .4027 i	2503	1471	1826	1155									6955	13186
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2122	1933	1143	1956									7154	6799
HANDWORK & SEWING THREAD	310.9000 & .9310 j	607	197	1714	585									3103	2920
SLIVER, TOPS & ROVING	309.9000	271	287	351	530									1439	1550
GLASS FIBER	309.2800 & .2900 k	2526	2716	404	2483									8129	7237
GRAND TOTAL ABOVE		**39746**	**36974**	**37742**	**38363**									**152823**	**170447**

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

+ Less than 1 thousand pounds.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 12:
U.S. EXPORTS OF MAN-MADE FIBER
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
FILAMENT YARN [a]															
TEXTURED	310.0004	27	2	6	31									66	268
OTHER [b]	310.0026	683	991	556	1220									3450	1947
MONOFILAMENTS	309.0110	89	36	5	36									166	2
STRIPS	309.2210	0	23	0	0									23	44
SUBTOTAL ABOVE		**799**	**1052**	**567**	**1287**									**3705**	**2261**
STAPLE+TOW-RAYON	309.4222	1019	1907	1702	1468									6096	11474
STAPLE-ACETATE	309.4219	89	66	309	329									793	413
SUBTOTAL ABOVE		**1108**	**1973**	**2011**	**1797**									**6889**	**11887**
WASTE, ADVANCED&NOT ADVANCED	309.7400	**143**	**251**	**198**	**86**									**678**	**581**
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651	4775	4929	3355									16710	9738
- HIGH TENACITY [c]	310.0027	8372	8470	8040	6580									31462	25805
- OTHER	310.0029	786	1111	2189	1186									5272	2678
POLYESTER - TEXTURED	310.0010	1739	2796	3405	2979									10919	10718
- HIGH TENACITY [c]	310.0032	1421	1817	2189	2281									7708	7387
- OTHER [d]	310.0034	207	225	265	284									981	620
OTHER - TEXTURED	310.0014	1067	1904	2220	1725									6916	5074
- OLEFIN	310.0040	83	626	121	143									973	217
- OTHER	310.0044	360	729	886	802									2777	2368
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	656	728	515	983									2884	2161
POLYESTER	309.0140	1641	1789	2345	1784									7559	1956
OTHER	309.0170	680	901	768	769									3118	2325
STRIPS	309.2220 & .2270	415	192	277	442									1326	1495
SUBTOTAL ABOVE		**21080**	**26063**	**28149**	**23313**									**98606**	**72542**
STAPLE - NYLON	309.4240	2423	1511	1760	981									6675	7877
- POLYESTER	309.4242	13519	7586	10316	10132									41553	66907
- ACRYLIC	309.4245	17224	11389	16118	7723									52454	13118
- OLEFIN	309.4246	1488	1604	2696	2137									7925	8626
- OTHER	309.4247	1228	1696	3193	1951									8068	9184
GROUPED FILAMENTS															
NYLON	309.3220	693	497	469	339									1998	1681
POLYESTER [d]	309.3240	2108	1330	2067	794									6299	7669
ACRYLIC	309.3250 & .3255	4966	3683	3809	2267									14725	7645
SUBTOTAL ABOVE		**43649**	**29296**	**40428**	**26324**									**139697**	**122707**
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	685	1210	1189	1492									4576	4423
- POLYESTER	309.7630	3959	4435	6616	4231									19241	18352
- ACRYLIC	309.7640	312	1219	923	676									3130	4425
- OTHER	309.7680	3765	3582	3138	3474									13959	12841
SUBTOTAL ABOVE		**8721**	**10446**	**11866**	**9873**									**40906**	**40041**
TOTAL MAN-MADE ABOVE		**75500**	**69081**	**83219**	**62680**									**290480**	**250019**
GLASS FIBER	309.2700 & .9700	8813	9352	9114	8934									36213	27002
GRAND TOTAL ABOVE		**84313**	**78433**	**92333**	**71614**									**326693**	**277021**

SOURCE: U.S. Census Bureau Report EM522.

+ Less than 1 thousand pounds.

a. Includes thrown, singles and plied yarn.

b. Includes rayon tire cord and cord fabric.

c. Includes noncellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

TABLE 13:
FILAMENT YARN DOMESTIC SHIPMENTS[a]

MILLION POUNDS

(C) CELLULOSIC YARN[j] *(N) NYLON* *(P) POLYESTER* *(O) OLEFIN*

		ANNUAL DATA				QUARTERLY DATA							
						1987				1988			
ITEM		1984	1985	1986	1987	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
HOSIERY[b]	N	101.5	98.1	95.1	93.2	23.6	23.5	23.8	22.3	22.7			
OTHER CIRCULAR KNIT[c]	N	17.6	12.9	21.3	25.3	7.7	7.0	6.1	4.5	7.1			
	P	174.7	151.2	150.3	102.8	21.1	28.8	27.3	25.6	25.6			
	C	2.3	2.6	2.0	1.1	0.4	0.3	0.2	0.2	0.2			
FLAT KNIT	C	67.2	53.0	47.8	27.9	8.7	8.1	5.0	6.1	5.7			
	N	135.2	143.6	133.8	131.4	32.0	32.6	33.2	33.6	31.2			
	P	137.3	160.8	167.1	162.5	37.5	40.6	41.3	43.1	39.2			
CARPET FACE	N	770.2	815.4	881.4	916.0	228.5	235.4	246.1	206.0	228.2			
	O	154.1	202.1	215.7	244.5	58.4	60.8	63.0	62.3	65.1			
CARPET BACKING[d]	O	227.8	354.6	404.1	425.3	98.1	106.9	110.2	110.1	107.9			
OTHER BROAD WOVEN[e]	C	108.8	111.3	126.3	122.8	26.3	31.7	31.4	33.4	31.0			
	N	90.7	71.4	76.2	79.4	17.7	19.6	21.4	20.7	19.9			
	P	392.2	420.1	344.4	379.4	94.7	97.0	91.8	95.9	89.8			
	O	190.3	225.7	271.5	317.7	68.9	77.1	80.3	91.4	84.9			
NARROW WOVEN[f]	C	0.7	1.5	2.0	2.2	0.4	0.4	0.4	1.0	1.5			
	N	39.9	31.1	33.9	42.1	10.2	11.3	10.6	10.0	11.1			
	P	38.7	40.0	44.0	66.2	12.7	17.1	18.7	17.7	15.2			
	O	14.9	15.2	17.5	17.7	4.1	3.6	4.6	5.4	4.7			
TIRES, INCL. CHAFER[g]	N	172.9	146.0	134.2	143.0	38.8	32.5	35.9	35.8	34.8			
	P	174.4	155.5	159.3	162.8	40.1	40.5	40.9	41.3	41.3			
OTHER RUBBER INDUSTRY[c,g]	N	20.9	15.3	15.2	16.4	3.8	4.4	4.0	4.2	6.1			
	P	32.7	31.2	27.2	34.5	8.6	8.8	8.7	8.4	6.7			
ROPE, CORDAGE & FISHLINE	N	35.0	35.3	36.4	37.9	9.2	9.8	10.4	8.5	9.7			
	P	15.7	13.8	13.0	13.4	3.4	3.1	3.5	3.4	3.7			
	O	106.9	108.2	106.3	106.7	25.0	28.2	24.5	29.0	27.9			
ALL OTHER[h]	C	1.1	18.7	14.0	12.8	3.4	3.1	3.2	3.1	3.0			
	N	54.2	48.3	52.1	69.6	17.8	18.7	14.3	18.8	17.6			
	P	179.2	231.7	187.1	191.8	48.7	49.3	48.6	45.2	45.2			
	O	31.6	31.8	34.1	23.6	7.0	5.2	4.9	6.5	7.8			
TOTAL ABOVE	**C**	**180.1**	**187.1**	**192.1**	**166.8**	**39.2**	**43.6**	**40.2**	**43.8**	**41.4**			
	N	**1438.1**	**1417.4**	**1479.6**	**1554.3**	**389.3**	**394.8**	**405.8**	**364.4**	**388.4**			
	P	**1144.9**	**1204.2**	**1092.4**	**1113.4**	**266.8**	**285.2**	**280.8**	**280.6**	**266.7**			
	O	**725.6**	**937.6**	**1049.2**	**1135.5**	**261.5**	**281.8**	**287.5**	**304.7**	**298.3**			
TOTAL DOMESTIC		**3488.7**	**3746.3**	**3813.3**	**3970.0**	**956.8**	**1005.4**	**1014.3**	**993.5**	**994.8**			
ALSO DIVIDED AS													
APPAREL		*1072.1*	*1064.7*	*949.4*	*932.3*	*225.7*	*248.1*	*230.6*	*227.9*	*222.6*			
HOME FURNISHINGS		*1354.2*	*1624.9*	*1746.8*	*1836.3*	*442.0*	*467.1*	*482.5*	*444.7*	*463.0*			
INDUSTRIAL		*1062.4*	*1056.7*	*1117.1*	*1201.4*	*289.1*	*290.2*	*301.2*	*320.9*	*309.2*			
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET)[i]													
NYLON		118.7	114.9	115.8	NA	NA	NA	NA	NA	NA			
POLYESTER		675.5	776.3	634.6	626.3	149.3	165.8	156.1	155.1	146.7			
OLEFIN		23.3	22.3	22.9	26.6	6.1	6.9	6.0	7.6	6.4			

NA No longer available.

[a] Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

[b] Small quantities of polyester and cellulosic yarn are included in All Other.

[c] Small quantities of olefin are included in All Other.

[d] Small quantities of nylon and polyester are included in All Other.

[e] Other Broad Woven except carpets, tire fabric, flat belting, etc.

[f] Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

[g] Cellulosic yarn quantities included in All Other.

[h] All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.

[i] These quantities are included in the Total Domestic area above.

[j] Data for 1984 contain acetate yarn only. Data for 1985-1988 contain acetate and rayon yarn.

TABLE 14:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

		ANNUAL DATA				QUARTERLY DATA							
						1987				1988			
ITEM		1984	1985	1986	1987	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(R) RAYON (N) NYLON (A) ACRYLIC+MODACRYLIC (P) POLYESTER (O) OLEFIN													
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	204.8	197.2	228.8	192.4	57.0	51.4	44.6	39.4	47.5			
	NPR	6.6	5.5	5.1	3.5	0.8	0.8	0.9	1.0	0.8			
PILE FABRICS[b]	A	30.0	24.5	23.2	20.8	5.6	5.7	5.1	4.4	5.0			
	P	18.4	14.9	15.0	19.7	4.4	5.1	6.2	4.0	3.9			
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	4.3	5.5	4.7	3.7	1.2	1.3	0.6	0.6	0.5			
	A	118.5	139.1	196.3	185.1	55.7	53.8	42.9	32.7	37.8			
	P	283.0	295.5	367.8	453.3	115.2	117.6	106.3	114.2	109.9			
BLANKETS[b]	A	25.2	30.2	26.7	25.7	5.9	6.6	7.6	5.6	6.4			
	P	5.5	6.2	3.7	9.2	1.3	1.8	2.8	3.3	1.8			
OTHER BROAD WOVEN	R	177.7	174.9	218.0	230.7	52.9	55.2	59.9	62.7	58.7			
	N	42.5	37.4	37.0	38.7	9.2	8.1	11.1	10.3	8.1			
	A	29.5	38.2	35.3	41.7	9.9	10.9	10.1	10.8	10.4			
	P	1039.1	864.9	885.6	839.2	205.3	218.1	202.9	212.9	216.0			
	O	22.1	26.9	18.0	20.2	4.8	4.7	5.5	5.2	4.6			
CARPET FACE YARNS[f]	R	0.3	0.5	0.4	+	+	+	0	0	0.2			
	N	751.0	773.9	837.8	905.1	230.2	239.3	230.6	205.0	f			
	P	131.4	126.8	145.0	209.0	46.8	50.7	51.4	60.1	66.1			
	O	96.5	107.4	117.2	116.2	24.3	28.9	31.5	31.5	30.3			
FIBERFILL[d]	P	276.1	281.1	294.9	348.6	88.9	80.7	83.6	95.4	82.1			
FLOCK	NP	9.2	5.3	5.9	5.5	1.6	1.0	1.3	1.6	1.6			
	R	2.7	1.8	1.8	0.9	0.5	0.4	0	0	+			
NONWOVENS[e,f]	R	126.3	113.5	125.4	124.4	31.1	28.6	31.8	32.9	35.4			
	N	2.8	2.5	2.1	1.9	0.4	0.4	0.5	0.6	0.4			
	P	177.2	162.5	175.3	204.2	48.7	47.7	51.4	56.4	63.1			
	[g] VINYON+O	119.2	135.8	166.2	198.0	49.4	50.4	47.8	50.4	46.0			
ALL OTHER	R	18.8	25.9	20.8	22.7	6.0	5.3	5.4	6.0	6.9			
	N	9.4	11.2	11.9	14.8	4.6	4.4	2.8	3.0	229.0			
	A	38.7	29.5	20.9	13.6	5.3	3.2	2.5	2.6	1.9			
	P	56.2	116.9	108.3	115.0	23.3	27.6	32.1	32.0	19.7			
	[g]VINYON+O	3.1	9.6	11.3	6.7	2.6	1.7	1.3	1.1	2.9			
TOTAL ABOVE	**R**	**331.9**	**323.7**	**373.0**	**383.1**	**91.8**	**91.0**	**97.9**	**102.4**	**101.9**			
	N	**814.4**	**830.3**	**894.9**	**966.0**	**246.2**	**253.2**	**246.2**	**220.4**	**238.8**			
	A	**446.7**	**458.7**	**531.2**	**479.3**	**139.4**	**131.6**	**112.8**	**95.5**	**109.0**			
	P	**1992.2**	**1872.7**	**1998.6**	**2201.0**	**534.4**	**549.9**	**537.5**	**579.2**	**563.5**			
	[g]VINYON+O	**240.9**	**279.7**	**312.7**	**341.1**	**81.1**	**85.7**	**86.1**	**88.2**	**83.8**			
TOTAL DOMESTIC		**3826.1**	**3765.1**	**4110.4**	**4370.5**	**1092.9**	**1111.4**	**1080.5**	**1085.7**	**1097.0**			
ALSO DIVIDED AS													
APPAREL		*1277.1*	*1255.0*	*1489.3*	*1479.9*	*386.0*	*388.9*	*351.3*	*353.7*	*355.8*			
HOME FURNISHINGS		*1559.0*	*1536.9*	*1625.8*	*1755.8*	*425.1*	*450.6*	*448.3*	*431.8*	*453.5*			
INDUSTRIAL		*992.1*	*973.2*	*995.3*	*1134.8*	*281.8*	*271.9*	*280.9*	*300.2*	*287.7*			

---

a. Olefin quantities are included in All Other.
b. Rayon and nylon quantities are included in All Other.
c. Nylon quantities are included in All Other.
d. Rayon, acrylic and nylon quantities are included in All Other.
e. Wet & dry laid and needled batts only.
f. Acrylic and nylon quantities are included in All Other.
g. 1987-1988 data exclude Vinyon.

TABLE 15:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

ITEM	1988												YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
	MAN-MADE FIBER TOTAL SHIPMENTS[b c]													
CELLULOSIC														
YARN	15.9	16.1	18.1	19.4	18.3								87.8	76.8
RAYON STAPLE	32.6	35.9	38.5	35.5	36.4								178.9	164.7
TOTAL CELLULOSIC	**48.5**	**52.0**	**56.6**	**54.9**	**54.7**								**266.7**	**241.5**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5	32.1	34.8	32.2	30.8								157.4	159.6
- CARPET	72.6	80.7	84.6	80.1	81.3								399.3	395.7
- TEXTILE[f]	30.0	31.2	34.5	31.7	31.7								159.1	158.9
POLYESTER - INDUSTRIAL[d]	26.5	29.3	30.7	31.3	29.4								147.2	139.3
- TEXTILE[f]	62.9	68.4	67.7	73.0	71.6								343.6	348.9
OLEFIN[e]	97.2	101.4	102.4	100.0	100.2								501.2	444.5
TOTAL YARN	**316.7**	**343.1**	**354.7**	**348.3**	**345.0**								**1707.8**	**1646.9**
STAPLE+TOW+FIBERFILL														
NYLON	78.0	81.7	83.4	71.0	77.9								392.0	431.3
ACRYLIC+MODACRYLIC	48.5	52.8	55.4	45.4	45.6								247.7	257.6
POLYESTER	190.4	202.4	198.5	212.1	193.8								997.2	971.1
OLEFIN	29.1	29.6	30.7	29.8	31.2								150.4	149.1
TOTAL STAPLE	**346.0**	**366.5**	**368.0**	**358.3**	**348.5**								**1787.3**	**1809.1**
TOTAL NONCELLULOSIC	**622.7**	**709.6**	**722.7**	**706.6**	**693.5**								**3495.1**	**3456.0**
TOTAL MAN-MADE FIBER	**711.2**	**761.6**	**779.3**	**761.5**	**748.2**								**3761.8**	**3697.5**
	MAN-MADE FIBER END OF MONTH STOCK													
CELLULOSIC														
YARN	12.3	13.3	13.2	14.0	12.8								12.8	14.7
RAYON STAPLE	23.5	22.5	20.3	18.0	16.5								16.5	25.9
TOTAL CELLULOSIC	**35.8**	**35.8**	**33.5**	**32.0**	**29.3**								**29.3**	**40.6**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6	25.7	23.5	23.3	25.2								25.2	27.0
- CARPET	72.0	66.5	67.0	66.5	69.6								69.6	48.3
- TEXTILE[f]	51.8	50.1	47.1	47.2	48.7								48.7	47.6
POLYESTER - INDUSTRIAL[d]	29.8	29.2	28.8	29.6	30.5								30.5	28.5
- TEXTILE[f]	82.5	81.5	79.5	77.3	79.7								79.7	80.0
OLEFIN[e]	54.4	55.0	53.5	54.1	54.5								54.5	56.0
TOTAL YARN	**317.1**	**308.0**	**299.4**	**298.0**	**308.2**								**308.2**	**287.4**
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7	57.5	64.4	60.5								60.5	56.4
ACRYLIC+MODACRYLIC	62.4	58.8	55.4	57.9	63.7								63.7	71.6
POLYESTER	173.7	168.3	157.8	161.8	167.4								167.4	171.7
OLEFIN	32.5	33.7	35.0	35.8	37.8								37.8	30.8
TOTAL STAPLE	**332.0**	**325.5**	**305.7**	**319.9**	**329.4**								**329.4**	**330.5**
TOTAL NONCELLULOSIC	**649.1**	**633.5**	**605.1**	**617.9**	**637.6**								**637.6**	**617.9**
TOTAL MAN-MADE FIBER	**684.9**	**669.3**	**638.6**	**649.9**	**666.9**								**666.9**	**658.5**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.9	11.7	14.0	11.3									49.9	55.7
CARPET CLASS WOOL	1.4	1.5	1.6	1.3									5.8	4.1
TOTAL RAW WOOL	14.3	13.2	15.6	12.6									55.7	59.8
RAW COTTON	300.0	311.4	337.2	279.3									1227.9	1227.3

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

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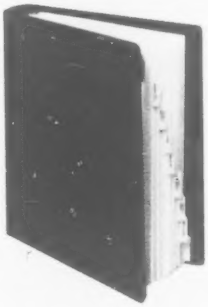

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- Domestic Shipments
- Exports
- Inventories
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- Carpet Yarn
- Textile Yarn
- Flat Yarn
- Feed & Producer Textured Yarn
- Shipments by Denier
- Indirect Exports

Quarterly

- Production
- Domestic Shipments
- Imports
- Exports
- Shipments by Denier
- Inventories
- Primary End Use
- Secondary End Use
- Waste Shipments
- Civil Engineering Fabric Shipments

Semiannually & Annually

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FAX (201) 228-7598

8/8/88 C8850-1

TEXTILE ORGANON

Volume 59, No. 7 ☐ July 1988

A publication of *Textile Economics Bureau, Inc.*

Highlights

- Worldwide Man-Made Fiber Survey in Millions of Pounds
- Worldwide Fiber Demand Rises 2% to Reach 80,534 MillionPounds
  ...Demand for man-made fiber up 5% to 36,578 million pounds
  ...Demand for natural fibers down slightly to 43,956 million pounds.

SHIPMENTS:

In the first half of 1988, total man-made fiber shipments were 65.6 million pounds or 2% ahead of the same period in the previous year. Categories showing large gains include olefin yarn ahead 52.7 million pounds or 10%, cellulosic fiber ahead 27.6 million pounds or 9% and polyester staple ahead 14.8 million pounds or 1%. A decline in nylon staple of 38.5 million pounds or 8% lead to a decline in total noncellulosic staple shipments in the period.

In the month of June 1988, total man-made fiber shipments were virtually the same as their total shipments in the previous month and in June 1987. Compared with June 1987 shipments, polyester industrial yarn was ahead 4.4 million pounds, nylon industrial yarn was ahead 2.4 million pounds and acrylic staple was ahead 2.3 million pounds. Polyester staple was behind 13.0 million pounds from the previous June.

Beginning in this month's issue of the Textile Organon, the total man-made fiber shipments in the table are broken out by domestic shipments and exports.

TABLE 1:
TOTAL U.S. MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1988 JUN	1988 MAY	% CHG 5/88-6/88	1987 JUN	% CHG 6/87-6/88	YEAR TO DATE 1988	YEAR TO DATE 1987	% CHG YTD 1987-1988
CELLULOSIC								
YARN	17.5	18.3	*-4.4*	16.9	*+3.6*	105.3	93.7	*+12.4*
RAYON STAPLE	36.2	36.4	*-0.5*	34.4	*+5.2*	215.1	199.1	*+8.0*
TOTAL CELLULOSIC	**53.7**	**54.7**	***-1.8***	**51.3**	***+4.7***	**320.4**	**292.8**	***+9.4***
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	32.4	30.8	*+5.2*	30.0	*+8.0*	189.8	189.6	*+0.1*
- CARPET	79.3	81.9	*-3.2*	78.5	*+1.0*	479.8	474.2	*+1.2*
- TEXTILE[a]	32.4	31.7	*+2.2*	31.4	*+3.2*	191.5	190.3	*+0.6*
POLYESTER - INDUSTRIAL	31.3	29.4	*+6.5*	26.9	*+16.4*	176.5	166.2	*+7.4*
- TEXTILE[a]	70.5	71.9	*-1.9*	71.7	*-1.7*	414.4	420.6	*-1.5*
OLEFIN	99.2	100.2	*-1.0*	103.2	*-3.9*	600.4	547.7	*+9.6*
TOTAL YARN	**345.1**	**345.9**	***-0.2***	**341.7**	***+1.0***	**2054.4**	**1988.6**	***+3.3***
STAPLE+TOW+FIBERFILL								
NYLON	79.2	77.9	*+1.7*	78.4	*+1.0*	471.2	509.7	*-7.6*
ACRYLIC+MODACRYLIC	47.4	45.6	*+3.9*	45.1	*+5.1*	295.1	302.7	*-2.5*
POLYESTER	195.4	195.5	*-0.1*	208.4	*-6.2*	1194.3	1179.5	*+1.3*
OLEFIN	32.5	31.2	*+4.2*	30.3	*+7.3*	182.9	179.4	*+2.0*
TOTAL STAPLE	**354.5**	**350.2**	***+1.2***	**362.2**	***-2.1***	**2143.5**	**2171.3**	***-1.3***
TOTAL NONCELLULOSIC	**699.6**	**696.1**	***+0.5***	**703.9**	***-0.6***	**4197.9**	**4159.9**	***+0.9***
TOTAL MAN-MADE FIBER	**753.3**	**750.8**	***+0.3***	**755.2**	***-0.3***	**4518.3**	**4452.7**	***+1.5***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS[b]	704.1	710.2	*-0.9*	707.3	*-0.5*	4231.9	4183.5	*+1.2*
EXPORTS[c]	49.2	40.6	*+21.2*	47.9	*+2.7*	286.4	269.2	*+6.4*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

Textile Organon

A Monthly Review

July 1988

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President
Rosemarie D. Frick

Editor, Textile Organon
David S. Morey

Publishing Headquarters:
Textile Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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ACKNOWLEDGEMENT

Our sincere thanks are extended to the more than 170 foreign man-made fiber associations, producing companies and individuals, as well as the U.S. Foreign Service posts reporting through the Office of Textiles and Apparel, International Trade Administration and the U.S. Department of Commerce who gave generous assistance with this worldwide survey.

DATAGRAM

TAIWAN, KOREA AND CHINA INCREASE SHARE OF WORLD NONCELLULOSIC FIBER PRODUCTION SINCE 1983

Of the 30,332 million pounds of worldwide noncellulosic fiber production (except olefin) in 1987, the U.S.A. had the largest share at 22%. Of the five leading producing countries shown in the table below, Taiwan, Korea, Rep. of, and China, PRC, increased their shares since 1983 while the U.S.A. share declined.

FIVE LEADING NONCELLULOSIC FIBER PRODUCING COUNTRIES - 1987

	Production, Million Pounds		Share of World Total	
Country	1983	1987	1983	1987
U.S.A.	6,633	6,822	27%	22%
Taiwan	1,627	3,067	7%	10%
Japan	2,906	2,956	12%	10%
Korea, Rep. of	1,464	2,137	6%	7%
China, PRC	851	2,006	3%	7%

U.S.S.R., CHINA AND INDIA INCREASE SHARE OF WORLDWIDE CELLULOSIC FIBER PRODUCTION

Worldwide cellulosic fiber production totaled 6,246 million pounds in 1987. Of the five leading producing countries shown below, U.S.S.R., China, PRC, and India increased their shares since 1983.

FIVE LEADING CELLULOSIC FIBER PRODUCING COUNTRIES -1987

	Production, Million Pounds		Share of World Total	
Country	1983	1987	1983	1987
U.S.S.R.	1,323	1,304	20%	21%
Japan	855	662	13%	11%
U.S.A.	640	605	10%	10%
China, PRC	288	463	4%	7%
India	256	321	4%	5%

CHINA AND OTHER ASIA COUNTRIES INCREASE SHARE OF WORLDWIDE NONCELLULOSIC FIBER CAPACITY

The December, 1989 capacity survey data indicate total worldwide noncellulosic capacity of 39,795 million pounds. Large capacity increases by China, PRC, and Other Asia countries will increase their shares of the world total as indicated in the table below.

NONCELLULOSIC FIBER PRODUCING CAPACITY
(PERCENT SHARE)

	3/1988	12/1989
Western Europe	19%	18%
Eastern Europe	13%	12%
U.S.A.	20%	20%
Other Americas	8%	7%
Japan	11%	10%
China, PRC	6%	7%
Other Asia	21%	24%
Middle East, Africa & Oceania	2%	2%
World Total	100%	100%

THE NUMBER OF MAN-MADE FIBER PRODUCING PLANTS IN CHINA AND U.S.S.R. REPORTED

The number of man-made fiber producing plants in China, PRC, and the U.S.S.R. was reported for the first time in the *TEXTILE ORGANON* in the June, 1988 issue on page 113. The data are repeated below.

	Cellulosic	Acrylic	Nylon	Polyester	Other	Glass Fiber
China, PRC	9	9	12	20	8	3
U.S.S.R.	19	3	12	4	1	11

GRAPH 1:
WORLDWIDE DEMAND FOR CERTAIN FIBERS
PERCENT SHARE

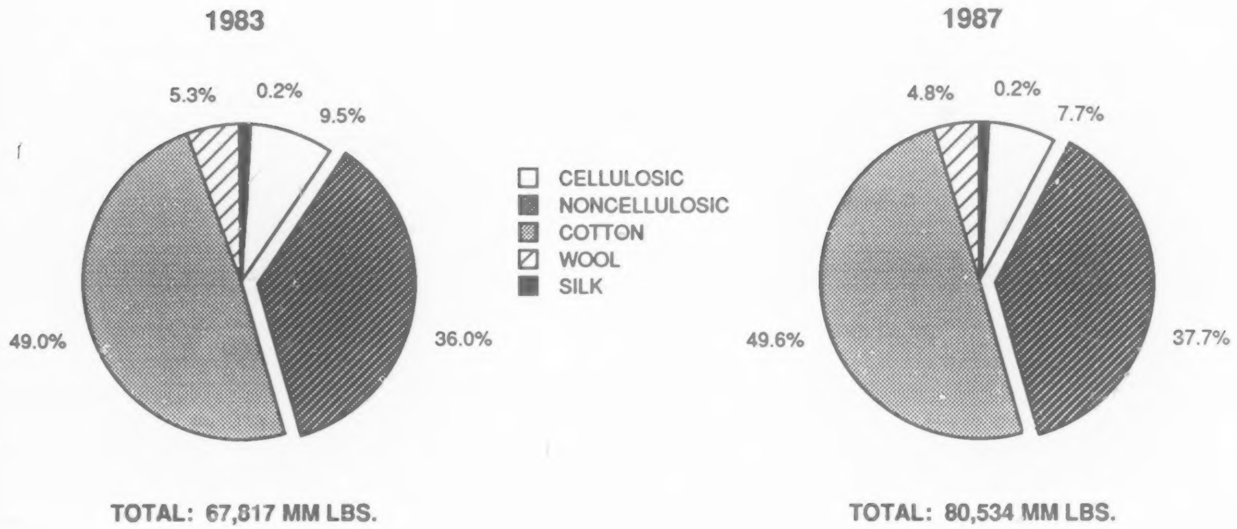


TABLE 2:
WORLDWIDE DEMAND FOR CERTAIN FIBERS
MILLION POUNDS

TYPE OF FIBER	1983	1984	1985	1986	1987	*% CHANGE 1987 / 1986*
CELLULOSIC FIBERS						
YARN+MONOFILAMENTS	2073	2065	2033	2066	2040	*-1.3*
STAPLE+TOW	4385	4554	4423	4194	4206	*+0.3*
TOTAL CELLULOSIC	**6458**	**6619**	**6456**	**6260**	**6246**	***-0.2***
NONCELLULOSIC FIBERS						
YARN+MONOFILAMENTS	10730	11520	12298	12683	13437	*+5.9*
STAPLE+TOW	13689	14607	15257	15964	16895	*+5.8*
TOTAL NONCELLULOSIC	**24419**	**26127**	**27555**	**28647**	**30332**	***+5.9***
TOTAL MAN-MADE [a]	**30877**	**32746**	**34011**	**34907**	**36578**	***+4.8***
% of World Total	*46%*	*47%*	*46%*	*44%*	*45%*	
NATURAL FIBERS						
RAW COTTON [b]	33206	33669	36676	40234	39952	*-0.7*
RAW WOOL [c]	3613	3697	3699	3774	3865	*+2.4*
RAW SILK [d]	121	123	130	139	139	*0*
TOTAL NATURAL	**36940**	**37489**	**40505**	**44147**	**43956**	***-0.4***
% of World Total	*54%*	*53%*	*54%*	*56%*	*55%*	
WORLD TOTAL	**67817**	**70235**	**74516**	**79054**	**80534**	***+1.9***
World Total %	*100%*	*100%*	*100%*	*100%*	*100%*	

The silk and man-made fiber data are on a calendar year basis, while the figures for cotton and wool are on a seasonal basis.

- **a.** Man-made fiber data are from tables 3 and 4. Glass fiber, olefin and acetate cigarette tow production are not included.
- **b.** **International Cotton Advisory Committee, COTTON: Review of the World Situation**, May-June 1988. New series based on cotton consumption data.
- **c.** **Commonwealth Secretariat** data, on a clean wool basis. See also the December 1987 *Textile Organon*, page 277.
- **d.** **International Silk Association**; Food and Agriculture Organization of the United Nations.

ADDITIONS AND CORRECTIONS

The following are additions and corrections in the **Worldwide Directory of Man-Made Fiber Producers** which appeared in our June 1988 ***Textile Organon***.

On page 115,
ARGENTINA

SOCIEDAD NUEVAS INDUSTRIAS ARGENTINAS FIBRAS ARTIFICIALES S.A.I.C.F.I. (SNIAFA)
DELETE :
Rayon Platanos (reg yarn & staple)

On page 130,
MALAYSIA

PLEASE ADD THE FOLLOWING COMPANIES:

ALIFFIL SYNTHETIC FIBRE SDN. BHD.
Polyester Penang (yarn)

ALLIED MALAYAN TEXTILE BHD.
Rayon Penang *Teteron* (yarn)

ARAB-MALAYSIAN DEVELOPMENT BHD.
Rayon Perak *Teteron* (yarn)

CHEMPAKA NEGRI LAKSHMI TEXTILES SDN. BHD.
Polyester Negeri Sembilan (yarn)
Rayon Negeri Sembilan *Teteron* (yarn)

HING YIAP FIBREMAKERS
Polyester Johor (yarn)

KWALITY TEXTILES (M) SDN. BHD.
Polyester Kedah *Teteron* (yarn)
Rayon Kedah *Teteron* (yarn)

MWE SPINNING MILLS SDN. BHD.
Polyester Penang *Teteron* (yarn)
Rayon Penang *Teteron* (yarn)

QUALINIT SDN. BHD.
Polyester Penang (yarn)

SOUTH ASIA FIBRE INDUSTRIES SDN. BHD.
Polyester Perak (yarn)

TEXFIBRE (SELANGOR) SDN. BHD.
Polyester Kuala Lumpur (yarn)

VERTEX FIBRE SDN. BHD.
Nylon Perak (yarn)

On page 132,
PHILIPPINES, REPUBLIC OF THE

HILON MANUFACTURING CORPORATION
Nylon 6 DELETE: (idle)

CHANGE THE FOLLOWING COMPANY NAME:

FROM: TEXFIBER CORPORATION
Nylon 6 Taytay, Rizal *Texfiber* (yarn)
TO: FIBERTEX CORPORATION

UNITED KINGDOM

On page 137,
DU PONT (U.K.) LTD.
ADD:
Aramid Maydown *Kevlar* (yarn)

UNITED STATES OF AMERICA

On page 138,
COURTAULDS NORTH AMERICA INC.
DELETE:
Nylon 6 Le Moyne, Mobile County, AL *Courtaulds, Shareen* (yarn & monofil)

ADD:
GULF FIBERS INC.
Nylon 6 Le Moyne, Mobile County, AL (monofil)

On page 139,
HOECHST CELANESE CORPORATION
ADD:
Vinyon Rock Hill (staple)

TABLE 3:
WORLDWIDE NONCELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1983			1984			1985		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE									
AUSTRIA	0	39.7	39.7	0	39.9	39.9	0	39.9	39.9
BENELUX[a]	149.9	47.6	197.5	167.8	53.1	220.9	177.5	66.4	243.9
FINLAND	1.1	0	1.1	1.1	0	1.1	1.1	0	1.1
FRANCE	139.3	284.4	423.7	132.7	289.9	422.6	133.8	269.0	402.8
GERMANY, FED. REP.	747.8	866.4	1614.2	776.0	835.5	1611.5	793.7	886.2	1679.9
GREECE	19.8	22.0	41.8	19.8	22.0	41.8	19.8	22.0	41.8
IRELAND	24.3	75.0	99.3	25.4	85.3	110.7	25.4	99.9	125.3
ITALY/MALTA	314.2	696.9	1011.1	339.5	824.1	1163.6	378.3	864.2	1242.5
PORTUGAL	2.2	92.6	94.8	2.2	99.2	101.4	2.2	112.4	114.6
SPAIN	164.5	381.8	546.3	171.1	403.0	574.1	187.4	418.7	606.1
SWITZERLAND	132.7	61.7	194.4	158.1	61.3	219.4	161.2	58.6	219.8
TURKEY	81.6	226.0	307.6	106.9	248.5	355.4	114.6	295.4	410.0
UNITED KINGDOM	156.1	337.3	493.4	176.4	352.7	529.1	186.7	348.3	535.0
TOTAL WESTERN EUROPE	**1933.5**	**3131.4**	**5064.9**	**2077.0**	**3314.5**	**5391.5**	**2181.7**	**3481.0**	**5662.7**
EASTERN EUROPE									
ALBANIA	0	0	0	0	0	0	0.9	0	0.9
BULGARIA	56.4	81.6	138.0	54.9	94.4	149.3	61.7	94.4	156.1
CZECHOSLOVAKIA	142.2	76.9	219.1	154.1	81.8	235.9	167.5	85.5	253.0
GERMANY, DEM .REP.	143.3	168.0	311.3	143.3	173.9	317.2	143.3	178.1	321.4
HUNGARY	18.1	27.3	45.4	19.0	27.8	46.8	19.8	28.0	47.8
POLAND	174.4	137.1	311.5	183.6	134.5	318.1	190.5	137.8	328.3
ROMANIA	101.4	235.9	337.3	125.7	258.8	384.5	127.9	306.0	433.9
USSR	760.6	610.7	1371.3	821.9	629.4	1451.3	857.1	714.3	1571.4
YUGOSLAVIA	62.8	99.2	162.0	73.9	134.3	208.2	78.3	131.2	209.5
TOTAL EASTERN EUROPE	**1459.2**	**1436.7**	**2895.9**	**1576.4**	**1534.9**	**3111.3**	**1647.0**	**1675.3**	**3322.3**
TOTAL EUROPE	**3392.7**	**4568.1**	**7960.8**	**3653.4**	**4849.4**	**8502.8**	**3828.7**	**5156.3**	**8985.0**

Y Yarn+monofilaments.
S Staple+tow+fiberfill.
a. Includes Belgium, Netherlands and Luxembourg.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
0	33.1	33.1	0	31.1	31.1	0	48.5	48.5	0	48.5	48.5
160.9	75.8	236.7	163.1	72.8	235.9	219.4	152.1	371.5	219.4	152.1	371.5
0.4	0	0.4	1.1	0	1.1	1.3	0	1.3	1.3	0	1.3
134.9	233.7	368.6	114.6	235.9	350.5	189.6	293.2	482.8	189.6	293.2	482.8
765.0	870.8	1635.8	783.3	901.0	1684.3	921.5	954.6	1876.1	921.5	954.6	1876.1
21.2	22.0	43.2	17.6	22.0	39.6	39.0	26.5	65.5	39.0	26.5	65.5
28.7	134.5	163.2	26.5	138.9	165.4	30.9	146.6	177.5	30.9	146.6	177.5
385.8	875.2	1261.0	377.0	866.4	1243.4	429.2	937.0	1366.2	429.2	937.0	1366.2
0	121.3	121.3	0	133.4	133.4	0	143.3	143.3	0	143.3	143.3
187.2	410.1	597.3	174.6	405.2	579.8	266.8	498.7	765.5	266.8	498.7	765.5
147.9	57.3	205.2	149.5	48.7	198.2	187.4	72.8	260.2	187.4	72.8	260.2
132.3	372.6	504.9	160.9	412.3	573.2	246.9	476.2	723.1	330.7	476.2	806.9
172.4	286.6	459.0	179.5	268.1	447.6	235.9	394.6	630.5	235.9	350.5	586.4
2136.7	3493.0	5629.7	2147.7	3535.8	5683.5	2767.9	4144.1	6912.0	2851.7	4100.0	6951.7
0.9	0	0.9	1.1	0	1.1	4.4	11.0	15.4	4.4	11.0	15.4
83.8	94.6	178.4	86.2	96.3	182.5	132.3	205.0	337.3	132.3	238.1	370.4
172.0	111.3	283.3	175.5	115.3	290.8	210.5	191.8	402.3	210.5	191.8	402.3
169.8	180.3	350.1	171.7	182.3	354.0	198.4	198.4	396.8	213.8	253.5	467.3
17.0	29.5	46.5	15.0	37.3	52.3	26.5	50.7	77.2	26.5	70.5	97.0
188.7	137.3	326.0	191.8	141.3	333.1	242.9	185.2	428.1	242.9	185.2	428.1
129.6	310.6	440.2	131.2	313.9	445.1	149.9	383.6	533.5	149.9	394.6	544.6
892.4	778.2	1670.6	959.0	884.0	1843.0	1049.4	1040.6	2090.0	1111.1	1075.8	2186.9
87.5	127.0	214.5	97.0	140.9	237.9	158.7	246.9	405.6	158.7	246.9	405.6
1741.7	1768.8	3510.5	1828.5	1911.3	3739.8	2173.0	2513.2	4686.2	2250.1	2667.4	4917.5
3878.4	5261.8	9140.2	3976.2	5447.1	9423.3	4940.9	6657.3	11598.2	5101.8	6767.4	11869.2

TABLE 3:
WORLDWIDE NONCELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY EXCEPT OLEFIN *(CONTINUED)*
MILLION POUNDS

	ACTUAL PRODUCTION								
	1983			1984			1985		
COUNTRY	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	**2851.7**	**3781.0**	**6632.7**	**2777.3**	**3697.4**	**6474.7**	**2835.7**	**3478.6**	**6314.3**
OTHER AMERICAS									
ARGENTINA	53.4	35.3	88.7	60.2	47.5	107.4	59.7	37.0	96.7
BOLIVIA	4.4	0	4.4	0	0	0	0	0	0
BRAZIL	233.0	175.5	408.5	260.6	215.2	475.8	268.3	211.2	479.5
CANADA	150.6	121.3	271.9	153.4	130.1	283.5	165.6	127.9	293.5
CHILE	5.7	2.2	7.9	6.2	2.4	8.6	9.0	4.4	13.4
COLOMBIA	69.0	19.6	88.6	85.1	23.6	108.7	84.4	21.8	106.2
COSTA RICA	7.7	0	7.7	7.7	0	7.7	7.7	0	7.7
ECUADOR	10.1	0	10.1	10.6	0	10.6	10.8	0	10.8
MEXICO	278.4	315.7	594.1	325.0	336.9	661.9	342.8	331.6	674.4
PERU	27.6	68.3	95.9	28.7	75.2	103.9	24.9	72.8	97.7
URUGUAY	3.5	8.2	11.7	3.5	7.5	11.0	4.0	8.8	12.8
VENEZUELA	21.4	8.8	30.2	22.5	12.1	34.6	27.6	13.2	40.8
TOTAL OTHER AMERICAS	**864.8**	**754.9**	**1619.7**	**963.5**	**850.2**	**1813.7**	**1004.8**	**828.7**	**1833.5**
JAPAN	**1316.8**	**1589.3**	**2906.1**	**1397.7**	**1621.0**	**3018.7**	**1422.8**	**1669.5**	**3092.3**
CHINA, PRC	**152.1**	**699.3**	**851.4**	**218.5**	**1014.8**	**1233.3**	**297.4**	**1316.4**	**1613.8**
OTHER ASIA									
BANGLADESH	0.4	0	0.4	0.7	0	0.7	1.1	0	1.1
INDIA	192.2	89.9	282.1	234.3	123.5	357.8	281.1	145.9	427.0
INDONESIA	146.4	136.2	282.6	157.6	161.6	319.2	169.5	155.0	324.5
KOREA, REP. OF	741.8	722.2	1464.0	814.8	830.9	1645.7	901.0	888.2	1789.2
MALAYSIA	0	77.2	77.2	0	78.3	78.3	0	85.5	85.5
PAKISTAN	17.9	41.0	58.9	28.2	47.8	76.0	44.1	50.7	94.8
PHILIPPINES	54.0	28.2	82.2	45.2	28.7	73.9	48.5	26.9	75.4
SRI LANKA	2.2	0	2.2	2.2	0	2.2	2.6	0	2.6
TAIWAN	714.5	912.7	1627.2	924.4	997.6	1922.0	1123.2	1133.4	2256.6
THAILAND	88.2	110.2	198.4	87.5	115.5	203.0	93.9	121.3	215.2
TOTAL OTHER ASIA	**1957.6**	**2117.6**	**4075.2**	**2294.9**	**2383.9**	**4678.8**	**2665.0**	**2606.9**	**5271.9**
MIDDLE EAST, AFRICA & OCEANIA									
AUSTRALIA/N.Z.	32.0	2.2	34.2	28.7	2.2	30.9	32.2	2.2	34.4
EGYPT	7.7	45.4	53.1	12.1	56.4	68.5	12.3	60.8	73.1
IRAN	33.1	59.5	92.6	29.8	44.1	73.9	29.8	55.1	84.9
ISRAEL	19.2	15.4	34.6	20.9	15.4	36.3	30.2	16.1	46.3
KENYA	8.4	0	8.4	9.9	0	9.9	11.2	0	11.2
NIGERIA	5.5	5.5	11.0	6.6	6.6	13.2	7.1	6.6	13.7
SOUTH AFRICA	83.8	50.7	134.5	102.5	65.5	168.0	116.4	60.4	176.8
TANZANIA	4.4	0	4.4	4.4	0	4.4	4.4	0	4.4
TOTAL M.E., A. & O.	**194.1**	**178.7**	**372.8**	**214.9**	**190.2**	**405.1**	**243.6**	**201.2**	**444.8**
TOTAL WORLD	**10729.8**	**13688.9**	**24418.7**	**11520.2**	**14606.9**	**26127.1**	**12298.0**	**15257.6**	**27555.6**

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
2778.2	**3656.2**	**6434.7**	**2875.9**	**3945.7**	**6821.6**	***3198.0***	***4313.0***	***7511.0***	***3356.0***	***4426.0***	***7782.0***
67.7	53.8	121.5	62.6	64.8	127.4	*124.1*	*83.8*	*207.9*	*139.6*	*83.8*	*223.4*
0	0	0	0	0	0	*11.0*	*0*	*11.0*	*11.0*	*0*	*11.0*
303.1	225.3	528.4	300.3	246.5	546.8	*384.5*	*293.7*	*678.2*	*393.3*	*293.7*	*687.0*
166.0	141.8	307.8	157.6	128.3	285.9	*264.5*	*169.8*	*435.2*	*265.4*	*169.8*	*435.2*
8.8	5.1	13.9	9.7	6.0	15.7	*23.6*	*17.6*	*41.2*	*23.6*	*17.6*	*41.2*
85.3	20.3	105.6	88.0	20.9	108.9	*121.7*	*28.7*	*150.4*	*121.7*	*28.7*	*150.4*
9.3	0	9.3	9.0	0	9.0	*17.6*	*0*	*17.6*	*17.6*	*0*	*17.6*
12.8	0	12.8	13.2	0	13.2	*17.6*	*15.4*	*33.0*	*17.6*	*15.4*	*33.0*
297.0	356.3	653.3	326.7	414.0	740.7	*479.9*	*522.5*	*1002.4*	*499.8*	*588.6*	*1088.4*
25.1	73.9	99.0	26.2	74.7	100.9	*44.1*	*83.8*	*127.9*	*44.1*	*83.8*	*127.9*
4.0	7.1	11.1	4.4	7.5	11.9	*11.0*	*12.1*	*23.1*	*11.0*	*12.1*	*23.1*
29.5	14.3	43.8	37.0	14.8	51.8	*50.7*	*25.4*	*76.1*	*50.7*	*25.4*	*76.1*
1008.6	**897.9**	**1906.5**	**1034.7**	**977.5**	**2012.2**	***1551.2***	***1252.8***	***2804.0***	***1595.4***	***1318.9***	***2914.3***
1334.2	**1654.3**	**2988.5**	**1342.2**	**1613.3**	**2955.5**	***1816.6***	***2086.7***	***3903.3***	***1816.6***	***2086.7***	***3903.3***
457.2	**1308.7**	**1765.9**	**593.0**	**1413.1**	**2006.1**	***674.6***	***1675.5***	***2350.1***	***798.1***	***1973.1***	***2771.2***
1.1	0	1.1	1.1	0	1.1	*2.2*	*39.7*	*41.9*	*2.2*	*39.7*	*41.9*
310.4	182.1	492.5	312.2	199.1	511.3	*428.8*	*452.2*	*881.0*	*516.5*	*822.1*	*1338.6*
183.2	175.5	358.7	191.8	187.2	379.0	*330.7*	*324.1*	*654.8*	*458.6*	*372.6*	*831.2*
961.9	938.9	1900.8	1055.3	1081.6	2136.9	*1167.1*	*1137.6*	*2304.7*	*1264.1*	*1155.2*	*2419.3*
0	83.6	83.6	0	85.8	85.8	*0*	*92.6*	*92.6*	*0*	*92.6*	*92.6*
56.9	53.8	110.7	61.3	56.0	117.3	*75.0*	*83.8*	*158.8*	*99.2*	*132.3*	*231.5*
44.1	27.3	71.4	47.4	28.0	75.4	*86.0*	*41.9*	*127.9*	*86.0*	*41.9*	*127.9*
2.9	0	2.9	3.3	0	3.3	*6.6*	*0*	*6.6*	*6.6*	*0*	*6.6*
1335.1	1381.2	2716.3	1576.5	1490.8	3067.3	*1797.4*	*1577.0*	*3374.4*	*2385.4*	*1784.2*	*4169.6*
88.2	125.7	213.9	113.1	148.1	261.2	*163.6*	*169.8*	*333.4*	*192.2*	*202.8*	*395.0*
2983.8	**2968.1**	**5951.9**	**3362.0**	**3276.6**	**6638.6**	***4057.4***	***3918.7***	***7976.1***	***5010.8***	***4643.4***	***9654.2***
35.9	2.2	38.1	39.9	2.4	42.3	*56.2*	*3.3*	*59.5*	*56.2*	*3.3*	*59.5*
13.9	67.5	81.4	15.2	70.8	86.0	*32.2*	*125.7*	*157.9*	*32.2*	*211.6*	*243.8*
20.9	57.3	78.2	20.9	57.1	78.0	*87.1*	*110.2*	*197.3*	*87.1*	*110.2*	*197.3*
23.1	16.1	39.2	25.4	16.3	41.7	*48.5*	*24.3*	*72.8*	*48.5*	*24.3*	*72.8*
11.2	2.2	13.4	11.0	2.4	13.4	*37.5*	*11.9*	*49.4*	*37.5*	*11.9*	*49.4*
7.7	6.8	14.5	8.8	6.8	15.6	*17.6*	*11.0*	*28.6*	*17.6*	*11.0*	*28.6*
123.9	65.0	188.9	125.2	65.9	191.1	*143.3*	*88.2*	*231.5*	*149.9*	*88.2*	*238.1*
5.5	0	5.5	6.6	0	6.6	*11.0*	*0*	*11.0*	*11.0*	*0*	*11.0*
242.1	**217.1**	**459.2**	**253.0**	**221.7**	**474.7**	***433.4***	***374.6***	***808.0***	***440.0***	***460.5***	***900.5***
12682.5	**15964.4**	**28646.9**	**13437.0**	**16895.0**	**30332.0**	***16672.1***	***20278.6***	***36950.7***	***18118.7***	***21676.0***	***39794.7***

TABLE 4:
WORLDWIDE CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY
MILLION POUNDS

COUNTRY	ACTUAL PRODUCTION								
	1983			1984			1985		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
WESTERN EUROPE [a]									
AUSTRIA	25.1	241.8	266.9	32.6	240.3	272.9	32.8	240.3	273.1
BELGIUM/NETHERLANDS	90.6	13.4	104.0	90.6	0	90.6	92.6	0	92.6
FINLAND	0	127.0	127.0	0	127.9	127.9	0	132.3	132.3
FRANCE	18.5	65.0	83.5	16.5	41.9	58.4	15.4	33.1	48.5
GERMANY, FED. REP.	130.1	121.3	251.4	134.5	121.3	255.8	141.1	121.3	262.4
GREECE	13.9	0	13.9	13.2	0	13.2	15.4	0	15.4
ITALY	64.6	0	64.6	67.5	0	67.5	66.6	0	66.6
PORTUGAL	2.0	0	2.0	2.2	0	2.2	2.2	0	2.2
SPAIN	23.1	47.4	70.5	15.9	57.5	73.4	16.5	66.1	82.6
SWEDEN	0	86.6	86.6	0	88.4	88.4	0	72.8	72.8
TURKEY	0.7	8.8	9.5	0.7	9.9	10.6	2.2	15.4	17.6
UNITED KINGDOM	55.1	254.0	309.1	46.3	234.1	280.4	41.9	132.7	174.6
TOTAL WESTERN EUROPE	**423.7**	**965.3**	**1389.0**	**420.0**	**921.3**	**1341.3**	**426.7**	**814.0**	**1240.7**
EASTERN EUROPE									
BULGARIA	9.0	77.2	86.2	9.0	81.8	90.8	9.0	82.9	91.9
CZECHOSLOVAKIA	44.3	83.6	127.9	45.2	85.1	130.3	46.1	87.3	133.4
GERMANY, DEM. REP.	77.2	286.8	364.0	77.6	297.6	375.2	78.0	291.9	369.9
HUNGARY	0	14.1	14.1	0	15.4	15.4	0	12.1	12.1
POLAND	40.1	112.9	153.0	43.0	123.5	166.5	45.2	111.6	156.8
ROMANIA	18.7	112.4	131.1	18.7	112.4	131.1	19.4	116.8	136.2
USSR	562.0	760.6	1322.6	566.6	760.6	1327.2	542.3	749.6	1291.9
YUGOSLAVIA	30.9	127.9	158.8	30.9	121.3	152.2	32.8	121.3	154.1
TOTAL EASTERN EUROPE	**782.2**	**1575.5**	**2357.7**	**791.0**	**1597.7**	**2388.7**	**772.8**	**1573.5**	**2346.3**
TOTAL EUROPE	**1205.9**	**2540.8**	**3746.7**	**1211.0**	**2519.0**	**3730.0**	**1199.5**	**2387.5**	**3587.0**

Y Yarn+monofilaments.

S Staple+tow+fiberfill.

a. Starting in 1986 country detail is no longer available due to disclosure.

These totals do not include data for the Indonesian pilot plant nor production of cellulosic fiber in North Korea.

Production and producing capacity by country, divided between rayon and acetate yarn, is given on pages 166 - 167.

Also note page 172 for data on production of cigarette tow.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
DETAIL NO LONGER AVAILABLE		271.2	DETAIL NO LONGER AVAILABLE		264.6	DETAIL NO LONGER AVAILABLE		*287.7*	DETAIL NO LONGER AVAILABLE		*287.7*
		88.2			88.2			*97.4*			*97.4*
		121.3			119.0			*154.3*			*154.3*
		46.3			50.7			*50.7*			*50.7*
		262.3			260.1			*288.8*			*288.8*
		17.0			17.2			*17.6*			*17.6*
		66.1			64.4			*94.8*			*94.8*
		2.0			2.6			*4.4*			*4.4*
		81.6			79.4			*92.8*			*97.2*
		48.7			50.7			*103.6*			*103.6*
		17.6			17.6			*22.9*			*22.9*
		127.9			121.3			*166.4*			*166.4*
420.1	**729.9**	**1150.2**	**410.5**	**725.3**	**1135.8**	***493.7***	***887.7***	***1381.4***	***493.7***	***892.1***	***1385.8***
9.3	83.8	93.1	9.5	84.7	94.2	*11.0*	*92.6*	*103.6*	*11.0*	*92.6*	*103.6*
46.5	89.3	135.8	47.2	90.4	137.6	*59.5*	*134.5*	*194.0*	*59.5*	*134.5*	*194.0*
78.5	203.0	281.5	79.1	204.1	283.2	*86.0*	*352.7*	*438.7*	*86.0*	*352.7*	*438.7*
0	12.1	12.1	0	12.3	12.3	*0*	*22.0*	*22.0*	*22.0*	*22.0*	*44.0*
42.1	116.6	158.7	41.9	118.6	160.5	*70.5*	*157.6*	*228.1*	*70.5*	*157.6*	*228.1*
19.8	121.3	141.1	19.8	125.7	145.5	*24.3*	*209.4*	*233.7*	*24.3*	*209.4*	*233.7*
542.3	756.2	1298.5	543.4	760.6	1304.0	*639.3*	*778.2*	*1417.5*	*639.3*	*778.2*	*1417.5*
33.3	123.5	156.8	29.3	110.2	139.5	*37.5*	*132.3*	*169.8*	*37.5*	*132.3*	*169.8*
771.8	**1505.8**	**2277.6**	**770.2**	**1506.6**	**2276.8**	***928.1***	***1879.3***	***2807.4***	***950.1***	***1879.3***	***2829.4***
1191.9	**2235.7**	**3427.8**	**1180.7**	**2231.9**	**3412.6**	***1421.8***	***2767.0***	***4188.8***	***1443.8***	***2771.4***	***4215.2***

TABLE 4:
WORLDWIDE CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY *(CONTINUED)*

MILLION POUNDS

	ACTUAL PRODUCTION								
	1983			1984			1985		
COUNTRY	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
U.S.A.	**263.8**	**376.1**	**639.9**	**239.1**	**389.6**	**628.7**	**204.6**	**353.2**	**557.8**
OTHER AMERICAS									
ARGENTINA	3.7	0	3.7	4.0	3.3	7.3	3.3	3.3	6.6
BRAZIL	40.6	48.5	89.1	39.0	63.9	102.9	44.3	58.4	102.7
CANADA	22.0	66.1	88.1	22.0	74.7	96.7	17.6	59.3	76.9
CHILE	2.2	7.1	9.3	2.6	8.2	10.8	2.9	8.4	11.3
COLOMBIA	4.0	0	4.0	4.0	0	4.0	4.0	0	4.0
CUBA	4.4	7.7	12.1	4.4	7.7	12.1	4.6	14.1	18.7
MEXICO	23.8	11.0	34.8	25.6	8.8	34.4	27.8	0	27.8
PERU	2.2	0	2.2	3.7	0	3.7	3.7	0	3.7
URUGUAY	2.2	0	2.2	2.2	0	2.2	2.2	0	2.2
VENEZUELA	3.3	0	3.3	4.2	0	4.2	4.6	0	4.6
TOTAL OTHER AMERICAS	**108.4**	**140.4**	**248.8**	**111.7**	**166.6**	**278.3**	**115.0**	**143.5**	**258.5**
JAPAN	**257.5**	**597.4**	**854.9**	**244.3**	**587.7**	**832.0**	**230.6**	**624.6**	**855.2**
CHINA, PRC	**67.0**	**220.5**	**287.5**	**99.2**	**238.1**	**337.3**	**110.2**	**286.6**	**396.8**
OTHER ASIA									
BANGLADESH	5.5	2.2	7.7	5.5	2.2	7.7	4.9	2.2	7.1
INDIA	101.9	154.1	256.0	91.9	220.7	312.6	103.4	209.4	312.8
INDONESIA	0	75.2	75.2	0	91.0	91.0	0	88.2	88.2
KOREA, REP. OF	28.4	0	28.4	28.2	0	28.2	30.4	0	30.4
PAKISTAN	6.0	0	6.0	6.8	0	6.8	7.1	0	7.1
TAIWAN	6.6	217.2	223.8	5.5	276.7	282.2	5.3	263.4	268.7
THAILAND	0	38.6	38.6	0	39.7	39.7	0	41.9	41.9
TOTAL OTHER ASIA	**148.4**	**487.3**	**635.7**	**137.9**	**630.3**	**768.2**	**151.1**	**605.1**	**756.2**
MIDDLE EAST, AFRICA & OCEANiA									
EGYPT	15.4	10.1	25.5	15.4	10.1	25.5	15.4	10.4	25.8
IRAQ	6.6	12.1	18.7	6.6	12.1	18.7	6.6	12.1	18.7
TOTAL M.E., A & O	**22.0**	**22.2**	**44.2**	**22.0**	**22.2**	**44.2**	**22.0**	**22.5**	**44.5**
TOTAL WORLD	**2073.0**	**4384.7**	**6457.7**	**2065.2**	**4553.5**	**6618.7**	**2033.0**	**4423.0**	**6456.0**

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
214.8	**404.2**	**619.0**	**191.1**	**414.3**	**605.4**	***244.0***	***469.0***	***713.0***	***244.0***	***469.0***	***713.0***
7.9	7.9	15.8	6.6	7.3	13.9	*23.8*	*11.0*	*34.8*	*23.8*	*11.0*	*34.8*
37.0	74.1	111.1	33.1	74.7	107.8	*46.5*	*91.9*	*138.4*	*46.5*	*91.9*	*138.4*
19.4	64.2	83.6	18.7	62.8	81.5	*32.0*	*83.8*	*115.8*	*32.0*	*83.8*	*115.8*
2.9	8.6	11.5	2.9	8.8	11.7	*3.3*	*11.9*	*15.2*	*3.3*	*11.9*	*15.2*
4.0	0	4.0	4.2	0	4.2	*7.7*	*0*	*7.7*	*7.7*	*0*	*7.7*
5.7	19.2	24.9	6.0	19.4	25.4	*6.6*	*19.8*	*26.4*	*6.6*	*19.8*	*26.4*
26.5	0	26.5	27.1	0	27.1	*34.8*	*0*	*34.8*	*34.8*	*0*	*34.8*
3.7	0	3.7	3.7	0	3.7	*3.7*	*0*	*3.7*	*3.7*	*0*	*3.7*
2.9	0	2.9	2.6	0	2.6	*4.2*	*0*	*4.2*	*4.2*	*0*	*4.2*
4.9	0	4.9	4.9	0	4.9	*5.3*	*0*	*5.3*	*5.3*	*0*	*5.3*
114.9	**174.0**	**288.9**	**109.8**	**173.0**	**282.8**	***167.9***	***218.4***	***386.3***	***167.9***	***218.4***	***386.3***
226.6	**478.8**	**705.4**	**219.1**	**443.3**	**662.4**	***298.7***	***547.8***	***846.5***	***298.7***	***547.8***	***846.5***
132.3	**286.6**	**418.9**	**154.3**	**308.6**	**462.9**	***220.5***	***330.7***	***551.2***	***220.5***	***330.7***	***551.2***
10.1	2.4	12.5	10.6	2.9	13.5	*14.3*	*23.1*	*37.4*	*14.3*	*23.1*	*37.4*
109.3	199.3	308.6	109.1	212.3	321.4	*156.1*	*284.0*	*440.1*	*173.9*	*300.0*	*473.9*
0	89.9	89.9	0	91.5	91.5	*0*	*103.6*	*103.6*	*0*	*103.6*	*103.6*
30.6	0	30.6	30.9	0	30.9	*30.9*	*61.9*	*92.8*	*34.8*	*61.9*	*96.7*
7.1	0	7.1	7.1	0	7.1	*7.3*	*0*	*7.3*	*7.3*	*0*	*7.3*
6.2	258.2	264.4	5.3	258.4	263.7	*8.8*	*285.7*	*294.5*	*8.8*	*285.7*	*294.5*
0	41.9	41.9	0	47.2	47.2	*0*	*52.2*	*52.2*	*0*	*68.3*	*68.3*
163.3	**591.7**	**755.0**	**163.0**	**612.3**	**775.3**	***217.4***	***810.5***	***1027.9***	***239.1***	***842.6***	***1081.7***
15.4	10.4	25.8	15.4	10.6	26.0	*15.4*	*11.9*	*27.3*	*15.4*	*11.9*	*27.3*
6.6	12.1	18.7	6.8	12.1	18.9	*7.7*	*14.3*	*22.0*	*7.7*	*14.3*	*22.0*
22.0	**22.5**	**44.5**	**22.2**	**22.7**	**44.9**	***23.1***	***26.2***	***49.3***	***23.1***	***26.2***	***49.3***
2065.8	**4193.5**	**6259.5**	**2040.2**	**4206.1**	**6246.3**	***2593.4***	***5169.6***	***7763.0***	***2637.1***	***5206.1***	***7843.2***

TABLE 5:
WORLDWIDE RAYON VS. ACETATE FILAMENT YARN PRODUCTION & PRODUCING CAPACITY BY COUNTRY
MILLION POUNDS

	ACTUAL PRODUCTION								
	1983			1984			1985		
COUNTRY	H	R&C	A	H	R&C	A	H	R&C	A
WESTERN EUROPE									
AUSTRIA	18	9	0	22	11	0	22	11	0
BELGIUM/NETHERLANDS	40	37	15	40	35	15	40	37	15
FRANCE	0	18	0	0	15	0	0	15	0
GERMANY, FED. REP [a]	86	44	0	88	46	0	88	53	0
ITALY [a]	20	4	40	24	4	40	22	4	40
SPAIN	7	9	7	+	9	7	+	9	7
UNITED KINGDOM	0	0	55	0	0	46	0	0	42
OTHER [b]	0	18	0	0	15	0	0	20	0
TOTAL WESTERN EUROPE	**171**	**139**	**117**	**174**	**135**	**108**	**172**	**149**	**104**
EASTERN EUROPE									
BULGARIA	0	9	0	0	9	0	0	9	0
CZECHOSLOVAKIA	18	26	0	18	26	0	18	29	0
GERMANY, DEM. REP.	29	49	0	29	49	0	31	49	0
POLAND	9	31	0	11	33	0	11	33	0
ROMANIA	11	7	0	11	7	0	11	9	0
USSR [a]	265	176	122	265	176	126	256	176	110
YUGOSLAVIA	15	15	0	15	15	0	18	15	0
TOTAL EASTERN EUROPE	**347**	**313**	**122**	**349**	**315**	**126**	**345**	**320**	**110**
U.S.A. [a]	**24**	**13**	**227**	**29**	**13**	**198**	**20**	**13**	**172**
OTHER AMERICAS									
ARGENTINA	0	0	4	0	0	4	0	0	4
BRAZIL	7	31	2	9	26	4	9	33	2
CANADA	0	0	23	0	0	22	0	0	18
CHILE	0	2	0	0	2	0	0	2	0
COLOMBIA	0	0	4	0	0	4	0	0	4
CUBA	4	+	0	4	0	0	4	0	0
MEXICO	7	4	13	4	7	13	7	7	15
PERU	0	0	2	0	0	4	0	0	4
URUGUAY	0	0	2	0	0	2	0	0	2
VENEZUELA	0	0	2	0	0	4	0	0	4
TOTAL OTHER AMERICAS	**18**	**37**	**52**	**17**	**35**	**57**	**20**	**42**	**53**
JAPAN [a]	**7**	**181**	**71**	**4**	**172**	**68**	**4**	**163**	**62**
CHINA, PRC	**0**	**66**	**0**	**0**	**99**	**0**	**0**	**110**	**0**
OTHER ASIA									
BANGLADESH	0	4	0	0	7	0	0	4	0
INDIA	22	77	2	18	73	2	15	88	+
KOREA, REP. OF	0	24	3	0	24	4	0	26	4
PAKISTAN	0	0	7	0	0	7	0	0	7
TAIWAN	0	7	0	0	4	0	0	4	0
TOTAL OTHER ASIA	**22**	**112**	**12**	**18**	**108**	**13**	**15**	**122**	**11**
OTHER M.E., A & O [c]	**0**	**22**	**0**	**0**	**22**	**0**	**0**	**22**	**0**
WORLD TOTAL	**589**	**883**	**601**	**591**	**899**	**570**	**576**	**941**	**512**

H High tenacity (tire & industrial type) viscose rayon yarn.
R Regular + intermediate tenacity viscose rayon yarn.
C Cuprammonium rayon yarn.
A Acetate + triacetate yarn.
a. Produces both regular + intermediate rayon yarn and cuprammonium rayon yarn.
b. Comprises Greece, Portugal and Turkey.
c. Comprises Egypt and Iraq.

ACTUAL PRODUCTION						PRODUCING CAPACITY					
1986			1987			3/1988			12/1989		
H	R&C	A	H	R&C	A	H	R&C	A	H	R&C	A
DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE			DETAIL NO LONGER AVAILABLE		
157	**152**	**112**	**157**	**152**	**101**	***185***	***187***	***121***	***185***	***187***	***121***
0	9	0	0	9	0	*0*	*11*	*0*	*0*	*11*	*0*
18	29	0	18	29	0	*24*	*35*	*0*	*24*	*35*	*0*
31	49	0	31	49	0	*33*	*53*	*0*	*33*	*53*	*0*
11	29	0	11	31	0	*20*	*51*	*0*	*20*	*51*	*0*
11	9	0	11	9	0	*13*	*11*	*0*	*13*	*11*	*0*
256	176	110	258	176	110	*265*	*220*	*154*	*265*	*220*	*154*
18	18	0	13	15	0	*18*	*20*	*0*	*18*	*20*	*0*
345	**319**	**110**	**342**	**318**	**110**	***373***	***401***	***154***	***373***	***401***	***154***
15	**13**	**185**	**15**	**13**	**163**	***51***	***13***	***181***	***51***	***13***	***181***
0	0	7	0	0	7	*0*	*18*	*7*	*0*	*18*	*7*
2	33	0	0	33	0	*4*	*37*	*4*	*4*	*37*	*4*
0	0	20	0	0	20	*0*	*0*	*33*	*0*	*0*	*33*
0	2	0	0	2	0	*0*	*4*	*0*	*0*	*4*	*0*
0	0	4	0	0	4	*0*	*0*	*7*	*0*	*0*	*7*
7	0	0	7	0	0	*7*	*0*	*0*	*7*	*0*	*0*
4	7	15	4	7	15	*7*	*9*	*20*	*7*	*9*	*20*
0	0	4	0	0	4	*0*	*0*	*4*	*0*	*0*	*4*
0	0	2	0	0	2	*0*	*0*	*4*	*0*	*0*	*4*
0	0	4	0	0	4	*0*	*0*	*4*	*0*	*0*	*4*
13	**42**	**56**	**11**	**42**	**56**	***18***	***68***	***83***	***18***	***68***	***83***
4	**163**	**60**	**4**	**157**	**60**	***22***	***203***	***73***	***22***	***203***	***73***
0	**132**	**0**	**0**	**154**	**0**	***0***	***220***	***0***	***0***	***220***	***0***
0	11	0	0	11	0	*0*	*13*	*0*	*0*	*13*	*0*
13	97	+	11	99	+	*46*	*101*	*9*	*46*	*119*	*9*
0	26	4	0	26	4	*0*	*26*	*4*	*0*	*26*	*9*
0	0	7	0	0	7	*0*	*0*	*7*	*0*	*0*	*7*
0	7	0	0	4	0	*0*	*9*	*0*	*0*	*9*	*0*
13	**141**	**11**	**11**	**140**	**11**	***46***	***149***	***20***	***46***	***167***	***25***
0	**22**	**0**	**0**	**22**	**0**	***0***	***24***	***0***	***0***	***24***	***0***
547	**984**	**534**	**540**	**998**	**501**	***695***	***1265***	***632***	***695***	***1283***	***637***

TABLE 6:
WORLDWIDE NONCELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY FIBER EXCEPT OLEFIN
MILLION POUNDS

FIBER & AREA	ACTUAL PRODUCTION								
	1983			1984			1985		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC									
WEST EUROPE	0	1836	1836	2	1909	1911	2	2039	2041
EAST EUROPE	0	483	483	0	492	492	0	542	542
U.S.A.	0	671	671	0	671	671	0	631	631
OTHER AMERICAS	0	287	287	0	309	309	0	295	295
JAPAN	4	783	787	4	809	813	4	838	842
CHINA, PRC	0	150	150	0	152	152	0	161	161
OTHER ASIA	0	642	642	0	692	692	0	703	703
MIDDLE EAST, AFRICA & OCEANIA	0	42	42	0	26	26	0	35	35
TOTAL	**4**	**4894**	**4898**	**6**	**5060**	**5066**	**6**	**5244**	**5250**
NYLON+ARAMID [a]									
WEST EUROPE	1069	278	1347	1111	317	1428	1173	335	1508
EAST EUROPE	1102	183	1285	1162	187	1349	1188	205	1393
U.S.A.	1493	926	2419	1577	835	2412	1515	828	2343
OTHER AMERICAS	417	53	470	465	53	518	503	44	547
JAPAN	598	40	638	635	42	677	642	53	695
CHINA, PRC	97	0	97	126	2	128	154	2	156
OTHER ASIA	677	9	686	758	7	765	809	11	820
MIDDLE EAST, AFRICA & OCEANIA	101	4	105	112	4	116	123	4	127
TOTAL	**5554**	**1493**	**7047**	**5946**	**1447**	**7393**	**6107**	**1482**	**7589**
POLYESTER									
WEST EUROPE	852	997	1849	951	1069	2020	994	1087	2081
EAST EUROPE	357	762	1119	412	847	1259	457	921	1378
U.S.A.	1359	2184	3543	1200	2191	3391	1321	2020	3341
OTHER AMERICAS	446	415	861	497	488	985	498	489	987
JAPAN	684	704	1388	722	706	1428	725	713	1438
CHINA, PRC	40	428	468	77	707	784	121	977	1098
OTHER ASIA	1280	1467	2747	1537	1683	3220	1856	1891	3747
MIDDLE EAST, AFRICA & OCEANIA	93	133	226	103	160	263	121	162	283
TOTAL	**5111**	**7090**	**12201**	**5499**	**7851**	**13350**	**6093**	**8260**	**14353**
OTHER FIBERS EXCEPT OLEFIN [b]									
WEST EUROPE	13	20	33	13	20	33	13	20	33
EAST EUROPE	0	9	9	2	9	11	2	7	9
U.S.A.	+	+	+	+	+	+	+	+	+
OTHER AMERICAS	2	0	2	2	0	2	4	0	4
JAPAN	31	62	93	37	64	101	51	66	117
CHINA, PRC	15	121	136	15	154	169	22	176	198
OTHER ASIA	+	+	+	+	2	2	+	2	2
MIDDLE EAST, AFRICA & OCEANIA	0	0	0	0	0	0	0	0	0
TOTAL	**61**	**212**	**273**	**69**	**249**	**318**	**92**	**271**	**363**
TOTAL FIBERS ABOVE									
WEST EUROPE	1934	3131	5065	2077	3315	5392	2182	3481	5663
EAST EUROPE	1459	1437	2896	1576	1535	3111	1647	1675	3322
U.S.A.	2852	3781	6633	2777	3697	6474	2836	3479	6315
OTHER AMERICAS	865	755	1620	964	850	1814	1005	828	1833
JAPAN	1317	1589	2906	1398	1621	3019	1422	1670	3092
CHINA, PRC	152	699	851	218	1015	1233	297	1316	1613
OTHER ASIA	1957	2118	4075	2295	2384	4679	2665	2607	5272
MIDDLE EAST, AFRICA & OCEANIA	194	179	373	215	190	405	244	201	445
WORLD TOTAL	**10730**	**13689**	**24419**	**11520**	**14607**	**26127**	**12298**	**15257**	**27555**

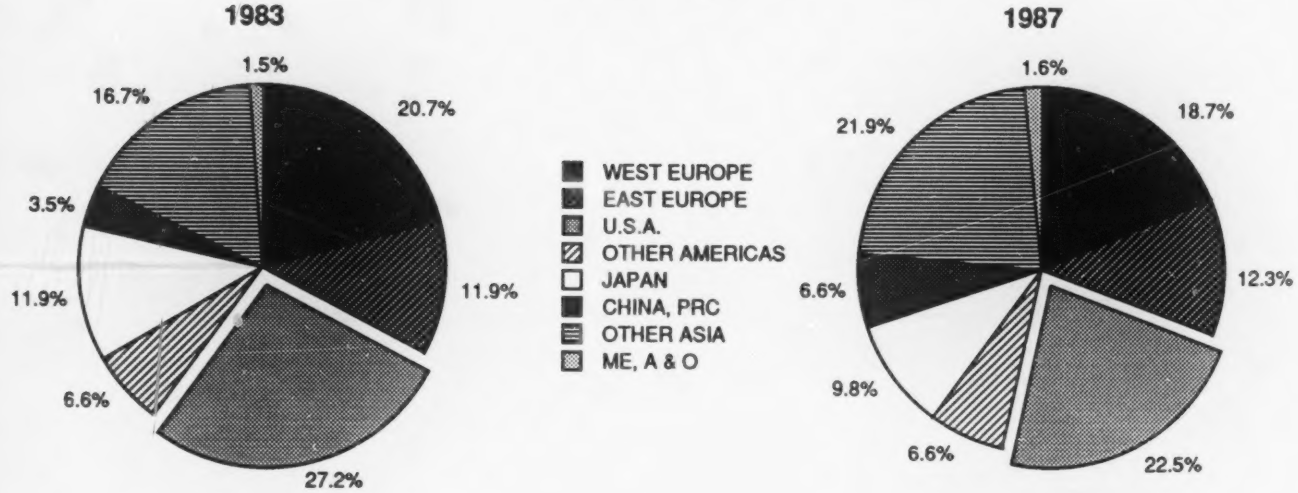
Y Yarn+monofilaments.
S Staple+tow+fiberfill.
+ Nominal quantities.
a. U.S.A. nylon producing capacity data do not include aramid.
b. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE-fluorocarbon, vinal and vinyon. U.S.A. production data do not include spandex.
c. Based on 1987 production and an average March 1987 and March 1988 producing capacity. Refer to July 1987 ***Textile Organon*** for March 1987 producing capacity.

The regional totals here are the same as those on pages 158 - 161.

ACTUAL PRODUCTION						PRODUCING CAPACITY						% UTILIZATION[c]	
1986			1987			3/1988			12/1989				
Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S
2	2059	2061	2	2077	2079	2	2346	2348	2	2346	2348	100.0	88.9
0	571	571	0	611	611	0	776	776	0	930	930	0	77.6
0	616	616	0	592	592	0	637	637	0	642	642	0	92.1
0	340	340	0	399	399	0	465	465	0	465	465	0	88.1
7	869	876	7	891	898	13	966	979	13	966	979	50.0	93.6
0	163	163	0	165	165	0	258	258	0	355	355	0	63.3
0	723	723	0	756	756	0	866	866	0	999	999	0	83.9
0	37	37	0	37	37	0	79	79	0	115	115	0	53.1
9	**5378**	**5387**	**9**	**5528**	**5537**	**15**	**6393**	**6408**	**15**	**6818**	**6833**	**57.1**	**86.3**
1140	309	1449	1140	317	1457	1459	430	1889	1499	430	1929	78.3	74.2
1213	207	1420	1248	209	1457	1429	265	1694	1506	265	1771	87.3	81.5
1605	908	2513	1697	992	2689	1844	1132	2976	1980	1168	3148	91.9	88.8
496	55	551	478	51	529	829	101	930	844	102	946	59.6	51.7
573	42	615	578	37	615	723	60	783	723	60	783	79.6	60.7
163	2	165	174	2	176	198	11	209	243	11	254	87.8	20.0
853	9	862	939	13	952	1254	26	1280	1340	40	1380	76.5	66.7
130	4	134	137	4	141	240	7	247	247	7	254	56.6	66.7
6173	**1536**	**7709**	**6391**	**1625**	**8016**	**7976**	**2032**	**10008**	**8382**	**2083**	**10465**	**80.6**	**81.4**
984	1105	2089	994	1122	2116	1289	1342	2631	1333	1298	2631	78.3	84.1
527	983	1510	579	1084	1663	742	1454	2196	742	1454	2196	75.8	74.7
1173	2133	3306	1179	2362	3541	1324	2544	3868	1346	2616	3962	87.7	94.5
509	503	1012	553	528	1081	718	687	1405	747	752	1499	75.3	78.1
710	683	1393	711	623	1334	1014	843	1857	1015	843	1858	72.0	76.6
272	1005	1277	397	1102	1499	444	1241	1685	522	1442	1964	89.6	82.4
2131	2234	4365	2423	2503	4926	2801	3027	5828	3669	3604	7273	85.4	83.4
112	176	288	116	181	297	194	289	483	193	339	532	59.6	67.8
6418	**8822**	**15240**	**6952**	**9505**	**16457**	**8526**	**11427**	**19953**	**9567**	**12348**	**21915**	**82.1**	**83.5**
11	20	31	11	20	31	18	26	44	18	26	44	62.5	75.0
2	7	9	2	7	9	2	18	20	2	18	20	100.0	37.5
+	+	+	+	+	+	30	+	30	30	+	30	0	0
4	0	4	4	0	4	4	0	4	4	0	4	100.0	0
44	60	104	46	62	108	66	218	284	66	218	284	59.2	27.7
22	139	161	22	144	166	33	165	198	33	165	198	66.7	86.7
0	2	2	0	4	4	2	0	2	2	0	2	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0
83	**228**	**311**	**85**	**237**	**322**	**155**	**427**	**582**	**155**	**427**	**582**	**51.3**	**54.6**
2137	3493	5630	2147	3536	5683	2768	4144	6912	2852	4100	6952	78.2	85.7
1742	1768	3510	1829	1911	3740	2173	2513	4686	2250	2667	4917	83.4	76.1
2778	3657	6435	2876	3946	6822	3198	4313	7511	3356	4426	7782	89.3	92.7
1009	898	1907	1035	978	2013	1551	1253	2804	1595	1319	2914	67.2	79.7
1334	1654	2988	1342	1613	2955	1816	2087	3903	1817	2087	3904	74.4	78.7
457	1309	1766	593	1413	2006	675	1675	2350	798	1973	2771	87.9	79.6
2984	2968	5952	3362	3276	6638	4057	3919	7976	5011	4643	9654	82.7	83.5
242	217	459	253	222	475	434	375	809	440	461	901	57.9	64.7
12683	**15964**	**28647**	**13437**	**16895**	**30332**	**16672**	**20279**	**36951**	**18119**	**21676**	**39795**	**81.1**	**83.6**

GRAPH 2:
PERCENT SHARE OF WORLDWIDE NONCELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY AREA

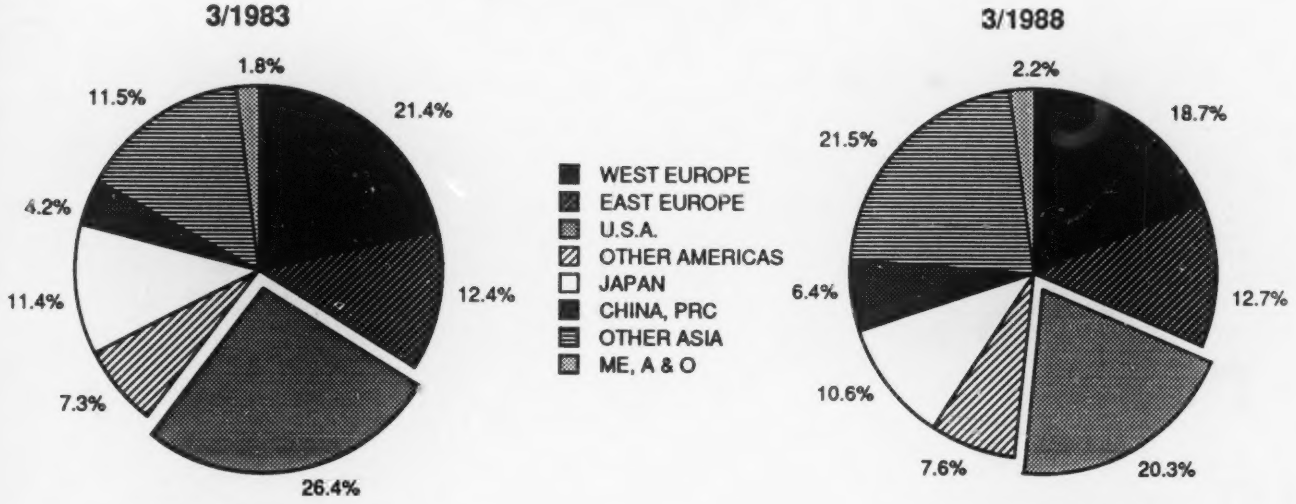
PRODUCTION



TOTAL: 24,419 MM LBS.

TOTAL: 30,332 MM LBS.

PRODUCING CAPACITY

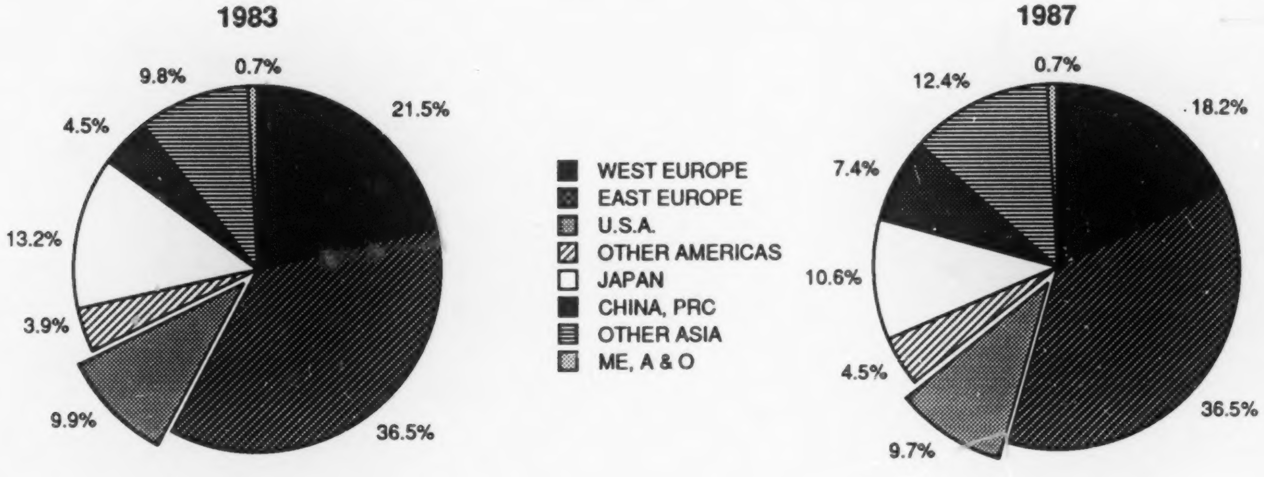


TOTAL: 30,593 MM LBS.

TOTAL: 36,951 MM LBS.

GRAPH 3:
PERCENT SHARE OF WORLDWIDE CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY AREA

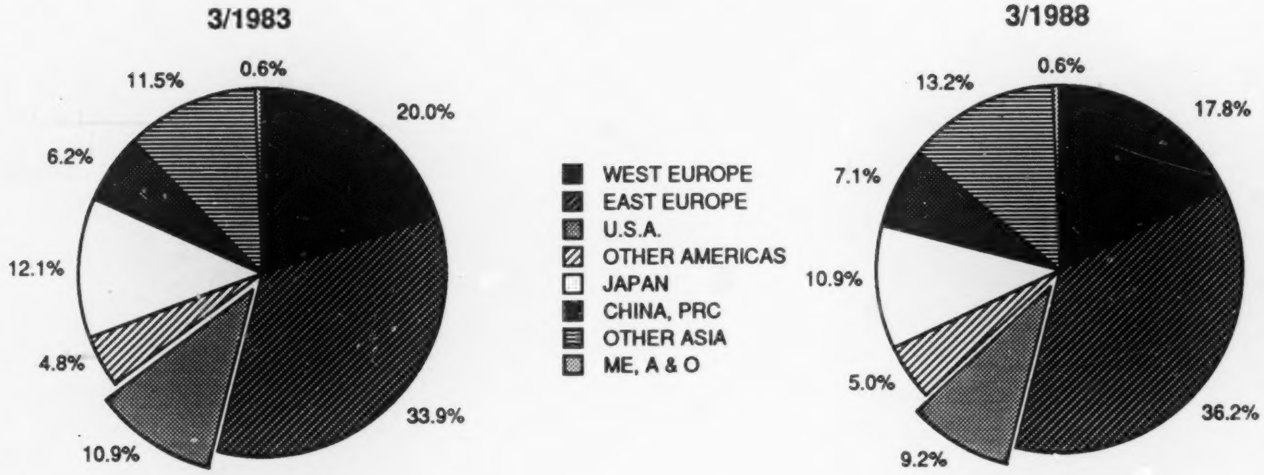
PRODUCTION



TOTAL: 6,458 MM LBS.

TOTAL: 6,246 MM LBS.

PRODUCING CAPACITY



TOTAL: 8,200 MM LBS.

TOTAL: 7,763 MM LBS.

TABLE 7:
WORLDWIDE GLASS FIBER PRODUCTION & PRODUCING CAPACITY
MILLION POUNDS

	PRODUCTION					CAPACITY	
COUNTRY	1983	1984	1985	1986	1987	3/88	12/89
WEST EUROPE }	639	661	705	802	897	*915*	*992*
EAST EUROPE[a] }						*220*	*220*
U.S.A.	1167	1394	1345	1389	1598	*1711*	*1748*
OTHER AMERICIAS	82	86	71	77	110	*154*	*165*
JAPAN	454	549	602	529	575	*694*	*728*
OTHER ASIA, AFRICA & OCEANIA[b]	31	31	62	66	77	*88*	*143*
TOTAL ABOVE	**2373**	**2721**	**2785**	**2863**	**3257**	***3782***	***3996***
CHINA, PRC	66	88	110	110	121	*209*	*220*
U.S.S.R.	143	165	187	220	243	*408*	*441*

Glass fiber is defined on page114 of the June 1988 ***Textile Organon***. The glass fiber producing capacity is based on March 1988 and December 1989 annual projections.

a. The data for East Europe do not include estimates for the U.S.S.R.

b. The Other Asia, Africa & Oceania countries are Australia, India and South Africa.

TABLE 8:
ESTIMATED WORLDWIDE CIGARETTE TOW PRODUCTION
MILLION POUNDS

AREA	1983	1984	1985	1986	1987
EUROPE[a]	176	176	183	229	236
U.S.A. } OTHER AMERICAS[b]	465	412	463	476	545
ASIA[c]	95	104	97	93	101
WORLD TOTAL	**736**	**692**	**743**	**798**	**882**

a. Belgium, Germany, Fed. Rep., U.S.S.R. & United Kingdom.

b. Brazil, Canada, Colombia, Mexico & Venezuela.

c. Japan and Korea, Rep. of.

TABLE 9:
WORLDWIDE OLEFIN FIBER PRODUCTION
MILLION POUNDS

COUNTRY	1983	1984	1985	1986	1987
WEST EUROPE					
AUSTRIA	44	46	53	57	60
BENELUX	165	214	265	311	331
DENMARK	31	31	55	57	62
FINLAND	9	31	53	53	40
FRANCE	64	64	110	121	121
GREECE/CYPRUS	22	24	31	33	35
GERMANY, FED. REP.	134	179	249	258	276
IRELAND	20	20	20	20	22
ITALY	148	201	280	287	287
NORWAY	11	9	9	9	11
PORTUGAL	86	86	88	88	90
SPAIN	79	82	82	90	93
SWEDEN	9	9	13	13	13
SWITZERLAND	9	18	31	37	40
TURKEY	13	13	13	13	15
UNITED KINGDOM	176	176	209	243	256
TOTAL WEST EUROPE	**1020**	**1203**	**1561**	**1690**	**1752**
EAST EUROPE					
CZECHOSLOVAKiA	26	26	26	26	26
HUNGARY	35	35	37	37	37
POLAND	33	35	35	37	37
U.S.S.R.	40	44	49	53	53
U.S.A.					
YARN+MONOFIL	381	397	435	478	492
STAPLE	190	250	295	335	361
FILM FIBER	335	350	520	580	642
OTHER AMERICAS					
ARGENTINA	26	26	29	29	29
BRAZIL	79	86	86	88	88
CANADA	71	66	71	73	75
CHILE	2	2	2	2	2
EL SALVADOR } GUATEMALA } HONDURAS	7	7	7	7	7
MEXICO	57	57	57	60	60
NICARAGUA	2	2	2	2	2
PERU	13	13	13	15	15
URUGUAY	4	4	4	4	4
JAPAN					
YARN+MONOFIL	31	31	31	24	31
STAPLE	64	71	77	82	82
FILM FIBER	NA	NA	NA	NA	NA
OTHER ASIA					
KOREA, REP. OF	2	2	2	0	0
PHILIPPINES	7	7	7	7	7
TAIWAN	132	139	157	170	172
MIDDLE EAST, AFRICA & OCEANIA					
AUSTRALIA	46	49	51	55	57
SOUTH AFRICA	11	11	11	11	11
OTHER	2	2	2	2	2

The olefin data shown include the "official" country data published by a government, an association or other statistical agency as well as an estimate of the olefin fiber, mainly slit and split film fiber, believed to have been produced in the country. For example: although U.S. olefin production data include yarn, monofil, staple, film fiber, and spunbonded polypropylene, published Italian and Japanese olefin data show the production of yarn+monofilaments and staple+tow but no data on production of film fiber, such as that used in sacks, fishing nets, and carpet backing. Estimates were made in the latter example.

Due to the inconsistencies in olefin production reporting, we have made no attempt to show a worldwide total.

TABLE 10:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	1988												YEAR TO DATE	
ITEMS & COUNTRY	**JAN**	**FEB**	**MAR**	**APR**	**MAY**	**JUN**	**JUL**	**AUG**	**SEP**	**OCT**	**NOV**	**DEC**	**1988**	**1987**
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	0	0	0								0	223
BRAZIL	54	0	28	55	28								165	197
CANADA	426	481	507	292	592								2298	1576
GERMANY, FED. REP.	353	635	281	227	388								1884	1927
JAPAN	277	131	45	121	62								636	303
MEXICO	62	53	18	81	70								284	158
NETHERLANDS	190	229	228	289	142								1078	434
ALL OTHER COUNTRIES [a]	11	1	21	67	44								144	6
TOTAL CELLULOSIC YARN	1373	1530	1128	1132	1326								6489	4824
CELLULOSIC STAPLE+TOW														
CANADA	1086	774	974	797	1355								4986	5364
ITALY	34	73	19	0	33								159	259
JAPAN	99	0	91	46	37								273	511
SWEDEN	0	41	45	0	20								106	180
UNITED KINGDOM	57	0	79	54	0								190	148
ALL OTHER COUNTRIES [b]	28	0	10	51	43								132	74
TOTAL CELLULOSIC STAPLE+TOW	1304	888	1218	948	1488								5846	6536
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436	1117	1665	894	172								5284	4557
CANADA	1448	1872	2220	2156	2451								10147	7886
CHINA, PRC	0	10	1	0	0								11	361
COSTA RICA	606	570	654	533	514								2877	3065
DENMARK	0	0	0	0	61								61	125
FRANCE	767	588	716	338	272								2681	2984
GERMANY, FED. REP.	1074	1355	1968	1078	1495								6970	10675
IRELAND	37	34	74	114	150								409	245
ISRAEL	388	309	123	304	182								1306	1055
ITALY	761	811	177	1678	942								4369	5554
JAPAN	648	212	729	277	282								2148	3418
KOREA, REP. OF	3	23	33	63	0								122	164
MEXICO	1428	2004	1547	978	1622								7579	9330
NETHERLANDS	49	42	26	31	57								205	588
SINGAPORE	81	41	44	19	34								219	204
SWITZERLAND	32	0	5	11	3								51	330
TAIWAN	12	26	12	53	69								172	196
UNITED KINGDOM	676	753	220	632	917								3198	3552
ALL OTHER COUNTRIES [c]	172	234	201	406	342								1355	604
TOTAL NONCELLULOSIC YARN	9618	10001	10415	9565	9565								49164	54893
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601	727	752	1321	296								3697	424
BELGIUM	35	0	18	18	634								705	146
BRAZIL	0	0	0	499	0								499	1315
CANADA	2003	2183	2981	2221	2797								12185	13881
FRANCE	934	799	800	957	1257								4747	3180
GERMANY, FED. REP.	2738	3040	2503	2478	3319								14078	11368
IRELAND	80	123	162	325	406								1096	109
ISRAEL	8	0	0	56	0								64	384
ITALY	130	362	145	241	5								883	7477
JAPAN	1963	2057	1894	2166	1912								9992	9710
KOREA, REP. OF	1355	1516	1456	1580	1295								7202	4398
MALAYSIA	0	95	48	48	0								191	325
MEXICO	303	549	210	502	985								2549	7506
ROMANIA	448	0	86	664	230								1428	1624
SWITZERLAND	102	21	153	189	123								588	527
TAIWAN	1986	1109	1425	1112	1024								6656	9373
UNITED KINGDOM	1604	1503	2175	1920	1777								8979	6478
ALL OTHER COUNTRIES [d]	52	30	48	48	2591								2769	347
TOTAL NONCELLULOSIC STAPLE+TOW	14342	14114	14856	16345	18651								78308	78572

+ Less than 1 thousand pounds.

a. Morocco 46, United Kingdom 39, Singapore 38, Korea, Rep. of 11, Italy 7, Taiwan 2, France 1.

b. France 61, Austria 41, Australia 25, Germany, Fed. Rep. 2, Mexico 2, Belgium 1.

c. Romania 392, Brazil 375, Spain 146, Chile 133, Sweden 102, Australia 69, Argentina 56, Norway 33, Turkey 30, Austria 15, Hong Kong 3, Vatican City 1, Egypt, Greece, India.

d. India 2575, Australia 93, Netherlands 40, Hong Kong 29, Ireland 16, Spain 7, China, PRC 5, Egypt 3, Portugal 1, Philippines.

TABLE 11:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0	+	0	64	18								82	270
OTHER	310.0130 & .0230[a]	1362	1468	1021	995	1210								6056	4548
MONOFILAMENTS	309.0310 & .0610	0	+	0	1	1								2	5
STRIPS, $1/LB & UNDER	309.2000*	11	62	107	72	97								349	1
SUBTOTAL ABOVE		**1373**	**1530**	**1128**	**1132**	**1326**								**6489**	**4824**
STAPLE	309.4320 & .4325	1182	888	1107	934	1354								5465	6246
GROUPED FILAMENTS	309.3010 & .3310	122	0	111	14	134								381	290
SUBTOTAL ABOVE		**1304**	**888**	**1218**	**948**	**1488**								**5846**	**6536**
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	0	+	0	0	0								+	7
NONCELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341	297	204	271	150								1263	688
450 DENIER AND OVER	310.0108 & .0208	1503	1643	1531	2018	1472								8167	13647
- POLYESTER	310.0110 & .0210	989	1368	1024	881	1327								5589	7328
- OTHER	310.0114 & .0214	2158	1830	2815	1920	1882								10605	8367
OTHER - NYLON	310.0149 & .0249	1154	1567	1602	1249	1672								7244	10522
- POLYESTER	310.0150 & .0250	2153	1631	1734	1657	1707								8882	8929
- OTHER	310.0170 & .0270[b]	762	1085	876	922	469								4114	2934
MONOFILAMENTS	309.0200 & .0330[c]	381	384	307	374	454								1900	1435
STRIPS, OVER $1/LB	309.2100 & .2500*	177	196	322	273	432								1400	1043
SUBTOTAL ABOVE		**9618**	**10001**	**10415**	**9565**	**9565**								**49164**	**54893**
STAPLE - NYLON	309.4331 & .4351	1696	1306	1915	2115	1707								8739	20467
- POLYESTER	309.4336 & .4361	4653	5670	4716	4932	7498								27469	26916
- ACRYLIC	309.4366	1214	953	1179	1399	1647								6392	5615
- OLEFIN	309.4371	83	104	534	498	165								1384	256
- OTHER	309.4341 & .4390	1350	1625	1750	2008	969								7702	4545
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713	2877	3289	3284	4091								17254	12763
POLYESTER	309.3040 & .3340	441	215	65	421	305								1447	1730
ACRYLIC	309.3050 & .3350	1086	1331	1249	1664	1631								6961	5383
OTHER	309.3065 & .3365	106	33	159	24	638								960	897
SUBTOTAL ABOVE		**14342**	**14114**	**14856**	**16345**	**18651**								**78308**	**78572**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940	1991	1933	1842	2391								11097	11041
- POLYESTER	309.6630	550	487	1073	637	470								3217	4767
- ACRYLIC	309.6645	0	0	21	110	0								131	132
- OTHER	309.6660	221	273	392	157	271								1314	2618
NOILS & GARNETTED FIBERS	309.7000*	80	0	0	33	0								113	0
OTHER WASTE, ADVANCED	309.7525 - .7555	596	596	637	323	366								2518	1916
SUBTOTAL ABOVE		**4387**	**3347**	**4056**	**3102**	**3498**								**18390**	**20474**
TOTAL MAN-MADE ABOVE		**31024**	**29880**	**31673**	**31092**	**34528**								**158197**	**165306**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0								+	+
- NONCELLULOSIC	310.1015[d]& .1205[e]	340	110	184	216	276								1126	1839
OTHER - CELLULOSIC	310.1030 & .1535[f]	15	21	5	34	19								94	232
- NONCELLULOSIC	310.1050 & .1070[g]	276	262	305	289	338								1470	1423
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	62	95	137	23	94								411	622
- OTHER	310.4015 & .4027[i]	2503	1471	1826	1155	2219								9174	17504
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2122	1933	1143	1956	1629								8783	8742
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	607	197	1714	585	661								3764	3609
SLIVER, TOPS & ROVING	309.9000	271	287	351	530	234								1673	2135
GLASS FIBER	309.2800 & .2900[k]	2526	2716	404	2483	2271								10400	8516
GRAND TOTAL ABOVE		**39746**	**36972**	**37742**	**38363**	**42269**								**195092**	**209928**

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

+ Less than 1 thousand pounds.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, 2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 12:
U.S. EXPORTS OF MAN-MADE FIBER
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
FILAMENT YARN [a]															
TEXTURED	310.0004	27	2	6	31	61								127	285
OTHER [b]	310.0026	683	991	556	1220	1231								4681	2601
MONOFILAMENTS	309.0110	89	36	5	36	9								175	2
STRIPS	309.2210	0	23	0	0	10								33	57
SUBTOTAL ABOVE		**799**	**1052**	**567**	**1287**	**1311**								**5016**	**2945**
STAPLE+TOW-RAYON	309.4222	1019	1907	1702	1468	2682								8778	14056
STAPLE-ACETATE	309.4219	89	66	309	329	146								939	628
SUBTOTAL ABOVE		**1108**	**1973**	**2011**	**1797**	**2828**								**9717**	**14684**
WASTE, ADVANCED&NOT ADVANCED	309.7400	**143**	**251**	**198**	**86**	**263**								**941**	**633**
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651	4775	4929	3355	4209								20919	12498
- HIGH TENACITY [c]	310.0027	8372	8470	8040	6580	6438								37900	32877
- OTHER	310.0029	786	1111	2189	1186	1068								6340	3561
POLYESTER - TEXTURED	310.0010	1739	2796	3405	2979	3311								14230	12797
- HIGH TENACITY [c]	310.0032	1421	1817	2189	2281	2706								10414	9193
- OTHER [d]	310.0034	207	225	265	284	135								1116	821
OTHER - TEXTURED	310.0014	1067	1904	2220	1725	2118								9034	6480
- OLEFIN	310.0040	83	626	121	143	161								1134	233
- OTHER	310.0044	360	729	886	802	688								3465	2813
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	658	728	515	983	523								3407	2714
POLYESTER	309.0140	1641	1789	2345	1784	1871								9430	3403
OTHER	309.0170	680	901	768	769	847								3965	3043
STRIPS	309.2220 & .2270	415	192	277	442	454								1780	2032
SUBTOTAL ABOVE		**21080**	**26063**	**28149**	**23313**	**24529**								**123134**	**92465**
STAPLE - NYLON	309.4240	2423	1511	1760	981	1387								8062	9969
- POLYESTER	309.4242	13519	7586	10316	10132	11435								52988	80867
- ACRYLIC	309.4245	17224	11389	16118	7723	12187								64641	17600
- OLEFIN	309.4246	1488	1604	2696	2137	1784								9709	10209
- OTHER	309.4247	1228	1696	3193	1951	2312								10380	13770
GROUPED FILAMENTS															
NYLON	309.3220	693	497	469	339	601								2599	1940
POLYESTER [d]	309.3240	2108	1330	2067	794	2046								8345	9397
ACRYLIC	309.3250 & .3255	4966	3683	3809	2267	3498								18223	9974
SUBTOTAL ABOVE		**43649**	**29296**	**40428**	**26324**	**35250**								**174947**	**153726**
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	685	1210	1189	1492	1287								5863	5683
- POLYESTER	309.7630	3959	4435	6616	4231	4813								24054	23645
- ACRYLIC	309.7640	312	1219	923	676	970								4100	4853
- OTHER	309.7660	3765	3582	3138	3474	3605								17564	15474
SUBTOTAL ABOVE		**8721**	**10446**	**11866**	**9873**	**10675**								**51581**	**49655**
TOTAL MAN-MADE ABOVE		**75500**	**69081**	**83219**	**62680**	**74856**								**365336**	**314108**
GLASS FIBER	309.2700 & .9700	8813	9352	9114	8934	7139								43352	34969
GRAND TOTAL ABOVE		**84313**	**78433**	**92333**	**71614**	**81995**								**408688**	**349077**

SOURCE: U.S. Census Bureau Report EM522.

+ Less than 1 thousand pounds.

a. Includes singles and plied yarn.

b. Includes rayon tire cord.

c. Includes noncellulosic tire cord.

d. Includes zero twist yarns.

TABLE 13:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

	1988												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
	MAN-MADE FIBER TOTAL SHIPMENTS[b c]													
CELLULOSIC														
YARN	15.9	16.1	18.1	19.4	18.3	17.5							105.3	93.7
RAYON STAPLE	32.6	35.9	38.5	35.5	36.4	36.2							215.1	199.1
TOTAL CELLULOSIC	**48.5**	**52.0**	**56.6**	**54.9**	**54.7**	**53.7**							**320.4**	**292.8**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5	32.1	34.8	32.2	30.8	32.4							189.8	189.6
- CARPET	72.6	80.7	84.6	80.7	81.9	79.3							479.8	474.2
- TEXTILE[f]	30.0	31.2	34.5	31.7	31.7	32.4							191.5	190.3
POLYESTER - INDUSTRIAL[d]	26.5	29.3	30.7	31.3	29.4	31.3							178.5	166.2
- TEXTILE[f]	62.9	68.4	67.7	73.0	71.9	70.5							414.4	420.6
OLEFIN[e]	97.2	101.4	102.4	100.0	100.2	99.2							600.4	547.7
TOTAL YARN	**316.7**	**343.1**	**354.7**	**348.9**	**345.9**	**345.1**							**2054.4**	**1988.6**
STAPLE+TOW+FIBERFILL														
NYLON	78.0	81.7	83.4	71.0	77.9	79.2							471.2	509.7
ACRYLIC+MODACRYLIC	48.5	52.8	55.4	45.4	45.6	47.4							295.1	302.7
POLYESTER	190.4	202.4	198.5	212.1	195.5	195.4							1194.3	1179.5
OLEFIN	29.1	29.6	30.7	29.8	31.2	32.5							182.9	179.4
TOTAL STAPLE	**346.0**	**366.5**	**368.0**	**358.3**	**350.2**	**354.5**							**2143.5**	**2171.3**
TOTALNONCELLULOSIC	**622.7**	**709.6**	**722.7**	**707.2**	**696.1**	**699.6**							**4197.9**	**4159.9**
TOTAL MAN-MADE FIBER	**711.2**	**761.6**	**779.3**	**762.1**	**750.8**	**753.3**							**4518.3**	**4452.7**
	MAN-MADE FIBER END OF MONTH STOCK													
CELLULOSIC														
YARN	12.3	13.3	13.2	14.0	12.8	12.4							12.4	14.0
RAYON STAPLE	23.5	22.5	20.3	18.0	16.5	13.4							13.4	25.1
TOTAL CELLULOSIC	**35.8**	**35.8**	**33.5**	**32.0**	**29.3**	**25.8**							**25.8**	**39.1**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6	25.7	23.5	23.3	25.2	24.7							24.7	25.8
- CARPET	72.0	66.5	67.0	66.5	70.2	71.9							71.9	47.7
- TEXTILE[f]	51.8	50.1	47.1	47.2	48.7	47.8							47.8	46.8
POLYESTER - INDUSTRIAL[d]	29.8	29.2	28.8	29.6	30.5	29.2							29.2	29.4
- TEXTILE[f]	82.5	81.5	79.5	77.3	79.7	82.9							82.9	85.7
OLEFIN[e]	54.4	55.0	53.5	54.1	54.5	54.0							54.0	54.9
TOTAL YARN	**317.1**	**308.0**	**299.4**	**298.0**	**308.8**	**310.5**							**310.5**	**290.3**
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7	57.5	64.4	60.5	65.2							65.2	61.5
ACRYLIC+MODACRYLIC	62.4	58.8	55.4	57.9	63.7	67.9							67.9	78.2
POLYESTER	173.7	168.3	157.8	161.8	167.4	171.7							171.7	161.6
OLEFIN	32.5	33.7	35.0	35.8	37.8	36.2							36.2	31.9
TOTAL STAPLE	**332.0**	**325.5**	**305.7**	**319.9**	**329.4**	**341.0**							**341.0**	**333.2**
TOTAL NONCELLULOSIC	**649.1**	**633.5**	**605.1**	**617.9**	**637.6**	**651.5**							**651.5**	**623.5**
TOTAL MAN-MADE FIBER	**684.9**	**669.3**	**638.6**	**649.9**	**666.9**	**677.3**							**677.3**	**662.6**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.9	11.7	14.1	11.3	11.5								61.5	69.1
CARPET CLASS WOOL	1.4	1.5	1.6	1.4	1.4								7.3	5.4
TOTAL RAW WOOL	14.3	13.2	15.7	12.7	12.9								68.8	74.5
RAW COTTON	300.0	311.4	339.3	278.0	305.2								1533.9	1535.7

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

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TEXTILE ORGANON

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Highlights

- 1983-1987 Summary of U.S. Imports and Exports of Manufactures... begins on page 180.
- U.S. Hosiery Production unchanged in 1987... see page 184.
- Total Available Fiber increases 51 million pounds in Second Quarter 1988... see pages 188-189.

SHIPMENTS:

Total man-made fiber shipments in July experienced their seasonal decline, and fell 61 million pounds or 8% below the June level. All fiber types except cellulosic yarn were at or below their levels of the previous month. On a pound basis, the two fibers showing the biggest declines for the month were olefin yarn down 17 million pounds and polyester staple down 11 million pounds.

When compared with the previous July, shipments of all fibers were also down, by a total of 13 million pounds. The individual fiber types were about equally divided between those showing gains and losses. Of the fibers showing gains since last year, cellulosic yarn, polyester industrial yarn, olefin yarn and polyester staple each showed an increase of over 3 million pounds. The two fibers with the largest declines in shipments were nylon carpet yarn and nylon staple, each down by 7 million pounds from the levels of last July.

TABLE 1:
TOTAL U.S. MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1988 JUL	1988 JUN	% CHG 6/88-7/88	1987 JUL	% CHG 7/87-7/88	YEAR TO DATE 1988	YEAR TO DATE 1987	% CHG YTD 1987-1988
CELLULOSIC								
YARN	19.1	17.5	*+9.1*	14.6	*+30.8*	124.4	108.3	*+14.9*
RAYON STAPLE	29.1	36.2	*-19.6*	33.6	*-13.4*	244.2	232.7	*+4.9*
TOTAL CELLULOSIC	**48.2**	**53.7**	***-10.2***	**48.2**	***- -***	**368.6**	**341.0**	***+8.1***
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	32.4	32.4	*- -*	30.6	*+5.9*	222.2	220.2	*+0.9*
- CARPET	73.7	79.3	*-7.1*	80.4	*-8.3*	553.5	554.6	*-0.2*
- TEXTILE[a]	27.7	32.6	*-15.0*	31.1	*-10.9*	219.7	221.4	*-0.8*
POLYESTER - INDUSTRIAL	29.3	31.3	*-6.4*	26.1	*+12.3*	208.8	192.3	*+8.6*
- TEXTILE[a]	70.2	70.5	*-0.4*	72.3	*-2.9*	485.9	492.9	*-1.4*
OLEFIN	86.3	102.8	*-16.1*	83.2	*+3.7*	695.7	630.9	*+10.3*
TOTAL YARN	**319.6**	**349.9**	***-8.7***	**323.7**	***-1.3***	**2385.8**	**2312.3**	***+3.2***
STAPLE+TOW+FIBERFILL								
NYLON	75.0	79.2	*-5.3*	81.6	*-8.1*	546.2	591.3	*-7.6*
ACRYLIC+MODACRYLIC	42.1	47.4	*-11.2*	47.5	*-11.4*	337.2	350.2	*-3.7*
POLYESTER	185.2	195.7	*-5.4*	181.6	*+2.0*	1380.1	1361.1	*+1.4*
OLEFIN	26.9	32.4	*-17.0*	26.9	*- -*	209.7	206.3	*+1.6*
TOTAL STAPLE	**329.2**	**354.7**	***-7.2***	**337.6**	***-2.5***	**2473.2**	**2508.9**	***-1.4***
TOTAL NONCELLULOSIC	**648.8**	**704.6**	***-7.9***	**661.3**	***-1.9***	**4859.0**	**4821.2**	***+0.8***
TOTAL MAN-MADE FIBER	**697.0**	**758.3**	***-8.1***	**709.5**	***-1.8***	**5227.6**	**5162.2**	***+1.3***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS[b]	643.7	709.1	*-9.2*	665.0	*-3.2*	4887.9	4848.5	*+0.8*
EXPORTS[c]	53.3	49.2	*+8.3*	44.5	*+19.8*	339.7	313.7	*+8.3*

[a] Includes low denier industrial yarn.

[b] Includes olefin exports.

[c] Excludes olefin exports.

Textile Organon

A Monthly Review

August 1988

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TEXTILE ECONOMICS BUREAU, INC.
President
Rosemarie D. Frick

Editor, Textile Organon
David S. Morey

Publishing Headquarters:
Textile Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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IMPORTS OF MANUFACTURED TEXTILE PRODUCTS INCREASED IN 1987

Latest U.S.D.A. data indicate that in 1987, apparel imports (of man-made, cotton and wool fiber, measured in pounds) increased by 357 million pounds or 17% over the 1986 total to reach 2458 million pounds. In the same period, imports of apparel and all manufactured products (excluding yarn and fabric) increased by 413 million pounds or 14% to reach 3267 million pounds. Since 1983, the average annual growth rate of apparel imports has been 18% and the average growth rate of imports of all manufactured products has been 17%.

NET IMPORTS INCREASED 14% IN 1987

Net imports (total imports less total exports) of manufactured and semimanufactured products increased 423 million pounds or 14% between 1986 and 1987 to reach 3488 million pounds. Since 1983, net imports have grown at an average rate of 21% per year. (See Table 2)

TOTAL AVAILABLE FIBER INCREASED 51 MILLION POUNDS IN THE SECOND QUARTER 1988

In the second quarter of 1988, the Total Available (Domestic Shipments plus Imports) of man-made fiber increased 51 million pounds above the quantity in the first quarter, to reach 2.2 billion pounds. That level is 25 million pounds above the quantity available in the second quarter of 1987. Compared with the same quarter of last year, the Total Available quantity of filament yarn increased 33 million pounds and of staple decreased 8 million pounds. Included in that total is a gain of 26 million pounds in available polyester staple, and declines of 33 million pounds of nylon staple and 22 million pounds of acrylic+modacrylic staple. (See Tables 10)

TABLE 2:
RAW FIBER EQUIVALENT OF IMPORTS & EXPORTS OF MAN-MADE FIBER, COTTON & WOOL MANUFACTURES
MILLION POUNDS Revised

COMMODITY	MAN-MADE FIBER							COTTON							WOOL						
	ANNUAL AVERAGE							ANNUAL AVERAGE							ANNUAL AVERAGE						
	1973 - 1977	1978 - 1982	1983	1984	1985	1986	1987	1973 - 1977	1978- 1982	1983	1984	1985	1986	1987	1973 - 1977	1978 - 1982	1983	1984	1985	1986	1987
IMPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC[a]	24.2	40.1	58.0	72.0	80.9	96.3	91.9	18.2	23.0	42.1	54.7	56.4	105.9	134.5	5.6	5.4	8.4	16.5	14.1	13.7	14.6
CLOTH[b]	85.8	96.9	138.1	170.4	214.3	245.0	211.7	276.2	282.4	338.6	450.8	437.1	532.9	649.9	12.2	24.4	28.1	39.1	36.8	25.9	29.5
SUBTOTAL	**110.0**	**137.0**	**196.1**	**242.4**	**295.2**	**341.3**	**303.6**	**294.4**	**305.4**	**380.7**	**505.5**	**493.5**	**638.8**	**784.4**	**17.8**	**29.8**	**36.5**	**55.6**	**50.9**	**39.6**	**44.1**
MANUFACTURED PRODUCTS																					
WEARING APPAREL[c]	307.8	417.5	576.0	689.2	800.6	929.7	1033.6	239.1	467.0	622.8	759.7	895.5	1016.0	1265.6	30.3	42.6	58.8	80.9	137.1	155.6	158.9
INDUSTRIAL[d]	3.7	0.4	1.3	0.5	0.9	2.7	5.6	6.4	8.2	28.4	37.7	46.2	46.4	53.2	NOMINAL QUANTITIES INCLUDED IN ALL OTHER						
HOME FURNISHINGS[e] }	28.0	54.2	296.1	410.4	394.2	429.2	462.6	34.1	54.8	89.9	140.3	165.7	182.9	205.2	13.7	16.9	35.5	52.3	60.5	62.9	53.1
ALL OTHER[f]								15.1	16.9	13.7	22.2	28.3	26.4	27.3	1.4	0.9	1.0	1.3	1.7	2.4	2.2
SUBTOTAL	**339.5**	**472.1**	**873.4**	**1100.1**	**1195.7**	**1361.6**	**1501.8**	**294.7**	**546.9**	**754.8**	**959.9**	**1135.7**	**1271.7**	**1551.3**	**45.4**	**60.4**	**95.3**	**134.5**	**199.3**	**220.9**	**214.2**
TOTAL IMPORTS	**449.5**	**609.1**	**1069.5**	**1342.5**	**1490.9**	**1702.9**	**1805.4**	**589.1**	**852.3**	**1135.5**	**1465.4**	**1629.2**	**1910.5**	**2335.7**	**63.2**	**90.2**	**131.8**	**190.1**	**250.2**	**260.5**	**258.3**
EXPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC[a]	37.2	49.8	35.3	38.3	51.1	47.9	53.9	19.4	36.3	31.2	20.2	25.8	16.6	19.6	11.6	4.0	4.0	2.9	9.1	6.3	12.7
CLOTH[b]	159.1	235.0	148.6	152.6	158.6	184.2	209.9	220.2	175.9	61.8	64.8	82.3	126.4	107.3	1.0	1.5	1.1	1.1	1.4	2.2	2.2
SUBTOTAL	**196.3**	**284.8**	**183.9**	**190.9**	**209.7**	**232.1**	**263.8**	**239.6**	**212.2**	**93.0**	**85.0**	**108.1**	**143.0**	**126.9**	**12.6**	**5.5**	**5.1**	**4.0**	**10.5**	**8.5**	**14.9**
MANUFACTURED PRODUCTS																					
WEARING APPAREL	32.8	86.4	70.8	79.4	65.2	74.9	82.5	46.4	107.3	72.1	68.3	55.5	73.9	108.4	2.5	6.7	3.0	2.9	3.8	3.8	4.2
INDUSTRIAL[d]	23.3	68.5	23.2	31.3	30.4	46.3	53.8	22.0	20.1	11.6	15.0	16.5	21.0	21.7	NOMINAL QUANTITIES INCLUDED IN ALL OTHER						
HOME FURNISHINGS[e]	46.9	74.2	125.2	102.8	70.3	86.8	101.0	} 62.8	55.9	42.2	37.2	32.6	36.4	40.1	2.6	0.4	0.2	0.2	0.1	0.2	0.2
ALL OTHER[g]	44.8	63.3	57.5	83.4	73.6	79.1	90.8			0.7	0.7	0.5	0.6	0.9	1.9	1.8	1.5	2.4	1.4	1.8	2.0
SUBTOTAL	**147.8**	**292.4**	**276.7**	**296.9**	**239.5**	**287.1**	**328.1**	**131.2**	**183.3**	**126.6**	**121.2**	**105.1**	**131.9**	**171.1**	**7.0**	**8.9**	**4.7**	**5.5**	**5.3**	**5.8**	**6.4**
TOTAL EXPORTS	**344.1**	**577.2**	**460.6**	**487.8**	**449.2**	**519.2**	**591.9**	**370.8**	**395.5**	**219.6**	**206.2**	**213.2**	**274.9**	**298.0**	**19.6**	**14.4**	**9.8**	**9.5**	**15.8**	**14.3**	**21.3**
NET EXPORTS (+) OR NET IMPORTS (-)	**-105.4**	**-31.9**	**-608.9**	**-854.7**	**-1041.7**	**-1183.7**	**-1213.5**	**-218.3**	**-456.8**	**-915.9**	**-1259.2**	**-1416.0**	**-1635.6**	**-2037.7**	**-43.6**	**-75.8**	**-122.0**	**-180.6**	**-234.4**	**-246.2**	**-237.0**

SOURCE: U.S. Department of Agriculture, Cotton and Wool Outlook & Situation.

a. Includes sliver, tops, roving, plied (textured and other), spun yarn, sewing thread and handwork yarns. Imports of man-made fiber yarn singles (textured and other) are not included here; rather they are included in Column 13 page 52 of the March 1988 Textile Organon.

Man-made fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1983-1987 ; the corresponding quantities for each year are, respectively (in millions of pounds): 87.0, 108.8, 162.0, 95.5 & 89.2.

b. Includes broad & narrow woven fabrics and knit cloth, except that cotton narrow fabrics and wool knit fabrics are included in All Other.

c. Includes lace & lace articles, veils & veilings and nets & nettings.

d. The man-made fiber data are tire cord & tire cord fabric.

e. Includes carpets & rugs. Lace window curtains are in All Other.

f. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc. Wool includes knit fabric in the piece, but not lace & lace articles, which are in Wearing Apparel. For 1983-1986, man-made fiber and cotton include imports of soft-sided luggage. For those years the quantities were respectively, (in millions of pounds): 180.5, 228.0, 157.4 & 169.3 for man-made fiber and 14.1, 18.7, 8.2 & 30.1 for cotton. Data for 1987 are not available.

g. Includes such products as lace & lace articles, polishing & dustcloths, braids, tassels, etc. Cotton also includes narrow fabric and wool includes knit fabrics.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with man-made fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 3:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER MANUFACTURES
MILLION POUNDS

COMMODITY	1987 Revised												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.[a]	6.4	7.6	7.1	8.4	8.8	9.6	8.7	7.3	7.7	8.0	6.4	5.9	91.9	96.3
CLOTH[b]	15.7	17.0	17.9	18.3	20.5	19.4	20.0	19.9	14.0	16.6	15.5	16.9	211.7	245.0
SUBTOTAL	**22.1**	**24.6**	**25.0**	**26.7**	**29.3**	**29.0**	**28.7**	**27.2**	**21.7**	**24.6**	**21.9**	**22.8**	**303.6**	**341.3**
MANUFACTURED PRODUCTS														
WEARING APPAREL	81.7	86.6	75.5	80.9	91.8	104.6	116.7	103.9	85.4	82.7	59.6	64.2	1033.6	929.7
INDUSTRIAL[c]	0.4	0.2	0.3	0.3	0.4	0.6	0.7	0.5	0.4	0.6	0.5	0.7	5.6	2.7
HOME FURNISHINGS[d] ALL OTHER[e] }	32.5	38.5	36.9	40.3	40.5	44.0	44.6	42.5	38.1	39.8	32.0	32.9	462.6	429.2
SUBTOTAL	**114.6**	**125.3**	**112.7**	**121.5**	**132.7**	**149.2**	**162.0**	**146.9**	**123.9**	**123.1**	**92.1**	**97.8**	**1501.8**	**1361.6**
TOTAL IMPORTS	**136.7**	**149.9**	**137.7**	**148.2**	**162.0**	**178.2**	**190.7**	**174.1**	**145.6**	**147.7**	**114.0**	**120.6**	**1805.4**	**1702.9**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.[a]	2.9	3.6	4.3	4.5	5.6	4.1	3.8	3.8	4.7	4.9	6.1	5.6	53.9	47.9
CLOTH[b]	11.9	16.2	18.9	20.0	18.1	19.4	13.4	18.8	18.6	17.8	18.6	18.2	209.9	184.2
SUBTOTAL	**14.8**	**19.8**	**23.2**	**24.5**	**23.7**	**23.5**	**17.2**	**22.6**	**23.3**	**22.7**	**24.7**	**23.8**	**263.8**	**232.1**
MANUFACTURED PRODUCTS														
WEARING APPAREL	5.8	6.8	7.1	7.8	6.7	6.6	6.8	6.3	7.3	7.5	7.4	6.4	82.5	74.9
INDUSTRIAL[c]	5.6	3.8	4.2	4.5	5.7	4.6	4.1	3.7	5.2	4.9	3.1	4.4	53.8	46.3
HOME FURNISHINGS[d]	5.8	7.1	9.4	10.1	8.0	9.8	7.4	8.0	8.9	8.0	9.0	9.5	101.0	86.8
ALL OTHER[e]	6.0	7.4	7.7	7.3	8.6	7.7	7.1	7.6	7.9	8.2	8.3	7.0	90.8	79.1
SUBTOTAL	**23.2**	**25.1**	**28.4**	**29.7**	**29.0**	**28.7**	**25.4**	**25.6**	**29.3**	**28.6**	**27.8**	**27.3**	**328.1**	**287.1**
TOTAL EXPORTS	**38.0**	**44.9**	**51.6**	**54.2**	**52.7**	**52.2**	**42.6**	**48.2**	**52.6**	**51.3**	**52.5**	**51.1**	**591.9**	**519.2**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.[a]	3.5 I	4.0 I	2.8 I	3.9 I	3.2 I	5.5 I	4.9 I	3.5 I	3.0 I	3.1 I	0.3 I	0.3 I	38.0 I	48.4 I
CLOTH[g]	3.8 I	0.8 I	1.0 E	1.7 E	2.4 I	0	6.6 I	1.1 I	4.6 E	1.2 E	3.1 E	1.3 E	1.8 I	60.8 I
SUBTOTAL	**7.3 I**	**4.8 I**	**1.8 I**	**2.2 I**	**5.6 I**	**5.5 I**	**11.5 I**	**4.6 I**	**1.6 E**	**1.9 I**	**2.8 E**	**1.0 E**	**39.8 I**	**109.2 I**
MANUFACTURED PRODUCTS														
WEARING APPAREL	75.9 I	79.8 I	68.4 I	73.1 I	85.1 I	98.0 I	109.9 I	97.6 I	78.1 I	75.2 I	52.2 I	57.8 I	951.1 I	854.8 I
INDUSTRIAL[c]	5.2 E	3.6 E	3.9 E	4.2 E	2.5 E	3.4 E	2.5 E	3.2 E	4.8 E	4.3 E	2.6 E	3.7 E	48.2 E	43.6 E
HOME FURNISHINGS[d] ALL OTHER[f] }	20.7 I	24.0 I	19.8 I	22.9 I	23.9 I	26.5 I	30.1 I	26.9 I	21.3 I	23.6 I	14.7 I	16.4 I	270.8 I	263.3 I
SUBTOTAL	**91.4 I**	**100.2 I**	**84.3 I**	**91.8 I**	**103.7 I**	**120.5 I**	**136.6 I**	**121.3 I**	**94.6 I**	**94.5 I**	**64.3 I**	**70.5 I**	**1173.7 I**	**1074.5 I**
TOTAL BALANCE	**98.7 I**	**105.0 I**	**86.1 I**	**94.0 I**	**109.3 I**	**126.0 I**	**148.1 I**	**125.9 I**	**93.0 I**	**96.4 I**	**61.5 I**	**69.5 I**	**1213.5 I**	**1183.7 I**

SOURCE: U.S. Department of Agriculture, Cotton and Wool Outlook & Situation.

a. Includes sliver, tops, roving, plied (textured and other), and spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here; rather they are included in Column 13 page 52 of the March 1988 ***Textile Organon.***

Man-made fiber yarn exports do not include substantial quantities of indirect exports. Indirect exports are shipments which are billed to a domestic customer by a yarn producer but which are ultimately exported by the customer. Indirect export data are available for the years 1983-1987; the corresponding quantities for each year are, respectively (in millions of pounds): 87.0, 108.8, 162.0, 95.5 & 89.2.

b. Includes broad & narrow woven fabrics and knit cloth.

c. The man-made fiber data are tire cord & tire cord fabric.

d. Includes carpets & rugs. Lace window curtains are in All Other.

e. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc.

f. Includes such products as lace & lace articles, polishing & dustcloths, braids, tassels, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with man-made fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 4:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF COTTON MANUFACTURES
MILLION POUNDS

COMMODITY	1987 Revised												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.[a]	10.3	11.1	8.2	7.4	6.4	9.1	11.7	11.7	13.5	15.5	16.2	13.4	134.5	105.9
CLOTH[b]	47.6	57.4	57.7	50.5	51.2	59.0	57.7	56.3	49.9	55.9	54.1	52.6	649.9	532.9
SUBTOTAL	**57.9**	**68.5**	**65.9**	**57.9**	**57.6**	**68.1**	**69.4**	**68.0**	**63.4**	**71.4**	**70.3**	**66.0**	**784.4**	**638.8**
MANUFACTURED PRODUCTS														
WEARING APPAREL	108.6	118.3	105.5	97.0	100.7	115.9	125.2	115.7	95.3	102.1	86.4	94.9	1265.6	1016.0
INDUSTRIAL	7.3	6.5	5.3	4.6	3.4	4.2	3.2	3.3	3.1	3.0	4.3	5.0	53.2	46.4
HOME FURNISHINGS[c]	16.0	16.0	17.4	16.0	15.4	16.7	17.6	18.3	16.7	17.5	18.5	19.1	205.2	182.9
ALL OTHER[d]	2.0	2.3	2.7	2.3	2.2	2.1	2.4	2.5	2.3	2.0	2.4	2.1	27.3	26.4
SUBTOTAL	**133.9**	**143.1**	**130.9**	**119.9**	**121.7**	**138.9**	**148.4**	**139.8**	**117.4**	**124.6**	**111.6**	**121.1**	**1551.3**	**1271.7**
TOTAL IMPORTS	**191.8**	**211.6**	**196.8**	**177.8**	**179.3**	**207.0**	**217.8**	**207.8**	**180.8**	**196.0**	**181.9**	**187.1**	**2335.7**	**1910.5**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.[a]	1.5	1.3	1.5	1.1	1.0	2.6	2.1	2.4	2.2	1.4	1.2	1.3	19.6	16.6
CLOTH[b]	8.4	12.2	10.8	9.5	9.0	8.1	7.1	8.8	7.5	8.7	8.8	8.4	107.3	126.4
SUBTOTAL	**9.9**	**13.5**	**12.3**	**10.6**	**10.0**	**10.7**	**9.2**	**11.2**	**9.7**	**10.1**	**10.0**	**9.7**	**126.9**	**143.0**
MANUFACTURED PRODUCTS														
WEARING APPAREL	6.0	8.5	9.4	9.3	9.4	8.7	9.5	8.5	9.7	9.9	10.1	9.4	108.4	73.9
INDUSTRIAL	1.2	1.8	1.8	1.8	1.7	2.3	1.7	1.7	1.8	2.4	1.8	1.7	21.7	21.0
HOME FURNISHINGS[c]	2.4	2.5	2.9	3.0	3.4	3.3	4.9	3.2	3.2	3.3	3.9	4.1	40.1	36.4
ALL OTHER[d]	+	0.1	0.1	+	0.1	0.1	0.1	+	0.1	0.1	0.1	0.1	0.9	0.6
SUBTOTAL	**9.6**	**12.9**	**14.2**	**14.1**	**14.6**	**14.4**	**16.2**	**13.4**	**14.8**	**15.7**	**15.9**	**15.3**	**171.1**	**131.9**
TOTAL EXPORTS	**19.5**	**26.4**	**26.5**	**24.7**	**24.6**	**25.1**	**25.4**	**24.6**	**24.5**	**25.8**	**25.9**	**25.0**	**298.0**	**274.9**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.	8.8 I	9.8 I	6.7 I	6.3 I	5.4 I	6.5 I	9.6 I	9.3 I	11.3 I	14.1 I	15.0 I	12.1 I	114.9 I	89.3 I
CLOTH	39.2 I	45.2 I	46.9 I	41.0 I	42.2 I	50.9 I	50.6 I	47.5 I	42.4 I	47.2 I	45.3 I	44.2 I	542.6 I	406.5 I
SUBTOTAL	**48.0 I**	**55.0 I**	**53.6 I**	**47.3 I**	**47.6 I**	**57.4 I**	**60.2 I**	**56.8 I**	**53.7 I**	**61.3 I**	**60.3 I**	**56.3 I**	**657.5 I**	**495.8 I**
MANUFACTURED PRODUCTS														
WEARING APPAREL	102.6 I	109.8 I	96.1 I	87.7 I	91.3 I	107.2 I	115.7 I	107.2 I	85.6 I	92.2 I	76.3 I	85.5 I	1157.2 I	942.1 I
INDUSTRIAL	6.1 I	4.7 I	3.5 I	2.8 I	1.7 I	1.9 I	1.5 I	1.6 I	1.3 I	0.6 I	2.5 I	3.3 I	31.5 I	25.4 I
HOME FURNISHINGS	13.6 I	13.5 I	14.5 I	13.0 I	12.0 I	13.4 I	12.7 I	15.1 I	13.5 I	14.2 I	14.6 I	15.0 I	165.1 I	146.5 I
ALL OTHER	2.0 I	2.2 I	2.6 I	2.3 I	2.1 I	2.0 I	2.3 I	2.5 I	2.2 I	1.9 I	2.3 I	2.0 I	26.4 I	25.8 I
SUBTOTAL	**124.3 I**	**130.2 I**	**116.7 I**	**105.8 I**	**107.1 I**	**124.5 I**	**132.2 I**	**126.4 I**	**102.6 I**	**108.9 I**	**95.7 I**	**105.8 I**	**1380.2 I**	**1139.8 I**
TOTAL BALANCE	**172.3 I**	**185.2 I**	**170.3 I**	**153.1 I**	**154.7 I**	**181.9 I**	**192.4 I**	**183.2 I**	**156.3 I**	**170.2 I**	**156.0 I**	**162.1 I**	**2037.7 I**	**1635.6 I**

SOURCE: U.S. Department of Agriculture, Cotton and Wool Outlook & Situation.

a. Includes sliver, tops, roving, plied (textured and other), spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here.

b. Includes broad & narrow woven fabrics and knit cloth. Cotton narrow fabrics are included in All Other.

c. Includes carpets and rugs, bed sheets, towels, tablecloths, etc. Lace window curtains are in All Other.

d. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category, e.g., in polyester and cotton fabric, the polyester portion is tabulated with man-made fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 5:
RAW FIBER EQUIVALENT OF IMPORTS, EXPORTS & BALANCE OF WOOL MANUFACTURES
MILLION POUNDS

COMMODITY	1987 Revised												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
IMPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.[a]	0.8	1.4	1.3	1.5	1.8	1.3	1.7	0.9	0.9	0.9	1.0	1.1	14.6	13.7
CLOTH[b]	2.0	2.7	3.1	3.3	3.8	3.1	2.9	2.0	1.5	1.7	1.5	1.9	29.5	25.9
SUBTOTAL	**2.8**	**4.1**	**4.4**	**4.8**	**5.6**	**4.4**	**4.6**	**2.9**	**2.4**	**2.6**	**2.5**	**3.0**	**44.1**	**39.6**
MANUFACTURED PRODUCTS														
WEARING APPAREL[c]	8.4	7.1	7.0	9.1	13.9	19.5	24.0	23.4	17.5	14.7	7.9	6.4	158.9	155.6
INDUSTRIAL	NOMINAL QUANTITIES INCLUDED IN ALL OTHER													
HOME FURNISHINGS[d]	4.3	4.4	5.5	4.3	4.6	4.6	4.3	3.8	3.8	5.0	4.1	4.4	53.1	62.9
ALL OTHER[e]	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.1	0.2	0.2	2.2	2.4
SUBTOTAL	**12.8**	**11.6**	**12.7**	**13.6**	**18.8**	**24.3**	**28.5**	**27.4**	**21.5**	**19.8**	**12.2**	**11.0**	**214.2**	**220.9**
TOTAL IMPORTS	**15.6**	**15.7**	**17.1**	**18.4**	**24.4**	**28.7**	**33.1**	**30.3**	**23.9**	**22.4**	**14.7**	**14.0**	**258.3**	**260.5**
EXPORTS														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.[a]	0.7	0.9	0.9	0.9	1.2	1.3	1.2	1.6	0.6	0.9	1.3	1.2	12.7	6.3
CLOTH[b]	0.1	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	2.2	2.2
SUBTOTAL	**0.8**	**1.2**	**1.1**	**1.1**	**1.4**	**1.5**	**1.4**	**1.8**	**0.8**	**1.1**	**1.4**	**1.3**	**14.9**	**8.5**
MANUFACTURED PRODUCTS														
WEARING APPAREL	0.2	0.1	0.2	0.2	0.3	0.3	0.3	0.5	0.3	0.6	0.6	0.6	4.2	3.8
INDUSTRIAL	NOMINAL QUANTITIES INCLUDED IN ALL OTHER													
HOME FURNISHINGS[d]	+	+	+	+	0.1	+	+	+	+	+	+	0.1	0.2	0.2
ALL OTHER[f]	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.2	0.2	2.0	1.8
SUBTOTAL	**0.3**	**0.2**	**0.4**	**0.4**	**0.6**	**0.4**	**0.4**	**0.6**	**0.5**	**0.9**	**0.8**	**0.9**	**6.4**	**5.8**
TOTAL EXPORTS	**1.1**	**1.4**	**1.5**	**1.5**	**2.0**	**1.9**	**1.8**	**2.4**	**1.3**	**2.0**	**2.2**	**2.2**	**21.3**	**14.3**
BALANCE														
SEMIMANUFACTURED PRODUCTS														
YARN, THREAD, ETC.	0.1 I	0.5 I	0.4 I	0.6 I	0.6 I	0	0.5 I	0.7 E	0.3 I	0	0.3 E	0.1 E	1.9 I	7.4 I
CLOTH	1.9 I	2.4 I	2.9 I	3.1 I	3.6 I	2.9 I	2.7 I	1.8 I	1.2 I	1.5 I	1.4 I	1.8 I	27.3 I	23.7 I
SUBTOTAL	**2.0 I**	**2.9 I**	**3.3 I**	**3.7 I**	**4.2 I**	**2.9 I**	**3.2 I**	**1.1 I**	**1.6 I**	**1.5 I**	**1.1 I**	**1.7 I**	**29. 2 I**	**31.1 I**
MANUFACTURED PRODUCTS														
WEARING APPAREL	8.2 I	7.0 I	6.8 I	8.9 I	13.6 I	19.2 I	23.7 I	22.9 I	17.2 I	14.1 I	7.3 I	5.8 I	154.7 I	151.8 I
INDUSTRIAL	NOMINAL QUANTITIES INCLUDED IN ALL OTHER													
HOME FURNISHINGS	4.3 I	4.4 I	5.5 I	4.3 I	4.5 I	4.6 I	4.3 I	3.8 I	3.8 I	5.0 I	4.1 I	4.3 I	52.9 I	62.7 I
ALL OTHER	0	0	0	0	0.1 I	0.1 I	0.1 I	0.1 I	0	0.2 E	0	0	0.2 I	0.6 I
SUBTOTAL	**12.5 I**	**11.4 I**	**12.3 I**	**13.2 I**	**18.2 I**	**23.9 I**	**28.1 I**	**26.8 I**	**21.0 I**	**18.9 I**	**11.4 I**	**10.1 I**	**207.8 I**	**215.1 I**
TOTAL BALANCE	**14.5 I**	**14.3 I**	**15.6 I**	**16.9 I**	**22.4 I**	**26.8 I**	**31.3 I**	**27.9 I**	**22.6 I**	**20.4 I**	**12.5 I**	**11.8 I**	**237.0 I**	**246.2 I**

SOURCE: U.S. Department of Agriculture, Cotton and Wool Outlook & Situation.

- **a.** Includes sliver, tops, roving, plied (textured and other), spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here.
- **b.** Includes broad & narrow woven fabrics. Wool knit fabrics are included in All Other.
- **c.** Includes lace & lace articles, veils & veilings and nets & nettings.
- **d.** Includes carpets and rugs.
- **e.** Includes knit fabric in the piece, but not lace & lace articles, which are in Wearing Apparel.
- **f.** Includes such products as braids, tassels, felts and knit fabrics.

NOTE: In the case of blended or mixed fiber products, the quantities of each of the component fibers have been estimated and included in the proper category. A waste factor has been included to bring the data to the equivalent raw fiber consumption.

TABLE 6:
U.S. PRODUCTION OF HOSIERY, 1978 -1987
MILLION DOZEN PAIRS

ITEM	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987
WOMEN'S										
PANTYHOSE - SHEER	44.6	55.3	57.3	59.6	58.5	64.0	67.1	57.9	57.3	53.7
- ELASTOMER	27.7	33.2	36.7	39.0	43.2	47.6	39.4	49.0	52.0	56.0
- OTHER[a]	1.6	2.4	2.0	2.4	3.4	5.0	7.4	7.3	8.8	10.2
SUBTOTAL PANTYHOSE	**73.9**	**90.9**	**96.0**	**101.0**	**105.1**	**116.6**	**113.9**	**114.2**	**118.1**	**119.9**
STOCKINGS - NONSTRETCH	2.6	2.4	2.0	1.8	1.5	1.5	1.3	1.2	1.3	1.6
- STRETCH	2.8	2.7	2.4	2.1	2.4	2.7	2.5	2.2	1.8	2.2
- SUPPORT	1.0	0.7	0.7	0.6	0.5	0.6	0.4	0.4	0.3	0.4
- OTHER	0.1	0.2	0.1	0.1	0.1	+	+	0.1	0.1	+
SUBTOTAL STOCKINGS	**6.5**	**6.0**	**5.2**	**4.6**	**4.5**	**4.8**	**4.2**	**3.9**	**3.5**	**4.2**
SHEER KNEE-HIGHS & ANKLETS	30.5	44.8	38.4	42.6	38.1	40.3	44.0	42.2	45.3	42.8
TOTAL WOMEN'S	**110.9**	**141.7**	**139.6**	**148.2**	**147.7**	**161.7**	**162.1**	**160.3**	**166.9**	**166.9**
MEN'S (sizes 10 and up)										
ANKLETS & FOOTSOCKS	51.7	43.7	27.9	27.8	27.1	27.2	26.8	26.0	26.6	26.9
MID-CALF	11.3	12.5	17.4	19.9	17.3	17.8	17.7	17.6	19.6	18.9
KNEE-HIGHS	13.4	16.0	17.8	20.7	17.6	21.5	23.9	23.8	21.5	18.4
TOTAL MEN'S	**76.4**	**72.2**	**63.1**	**68.4**	**62.0**	**66.5**	**68.4**	**67.4**	**67.7**	**64.2**
GIRLS', BOYS' & WOMEN'S (sizes 8 -11)										
ANKLETS	18.5	19.6	12.5	14.6	11.9	17.3	19.5	19.4	27.4	29.1
KNEE-HIGHS	20.6	22.1	24.3	29.8	23.4	25.7	20.2	17.0	13.7	11.4
MID-CALF/CREW }	NA	NA	3.1	4.5	4.0	4.9	4.5	6.2	8.2	12.1
WAIST-HIGHS			0.3	0.5	0.5	0.5	0.5	0.6	0.5	0.7
FOOTSOCKS	7.6	6.7	8.6	9.4	6.5	5.8	5.2	6.1	6.4	5.9
TOTAL GIRLS', BOYS' & WOMEN'S	**46.7**	**48.4**	**48.8**	**58.8**	**46.3**	**54.2**	**49.9**	**49.3**	**56.2**	**59.2**
INFANTS' & CHILDREN'S (SIZES 3-8 1/2)										
ANKLETS	22.1	22.1	19.3	20.5	16.1	16.5	15.5	14.2	16.6	16.9
KNEE-HIGHS	6.4	8.5	6.6	7.7	6.7	7.0	5.8	4.6	3.5	3.3
MID-CALF	NA	NA	1.3	1.2	1.4	1.4	3.6	5.7	6.7	7.9
WAIST-HIGHS & FOOTSOCKS	1.3	1.6	1.6	1.8	1.6	2.1	2.3	1.8	1.6	1.5
TOTAL INFANTS' & CHILDREN'S	**29.8**	**32.2**	**28.8**	**31.2**	**25.8**	**27.0**	**27.2**	**26.3**	**28.4**	**29.6**
TOTAL HOSIERY	**263.8**	**294.5**	**280.3**	**306.6**	**281.8**	**309.4**	**307.6**	**303.3**	**319.2**	**319.9**

SOURCE: National Association of Hosiery Manufactures - ***1987 Hosiery Statistics.***

+ Less than 100 thousand dozen pairs.

[a] Includes opaque hosiery, which is defined as hosiery knit on 370 needles or more, using leg yarn 30 denier or coarser.

TABLE 7:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	1988												YEAR TO DATE	
ITEMS & COUNTRY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	0	0	0	0							0	244
BRAZIL	54	0	28	55	28	13							178	285
CANADA	426	481	507	292	592	827							3125	1646
GERMANY, FED. REP.	353	635	281	227	388	313							2197	2279
JAPAN	277	131	45	121	62	63							699	341
MEXICO	62	53	18	81	70	68							352	176
NETHERLANDS	190	229	228	289	142	104							1182	474
ALL OTHER COUNTRIES [a]	11	1	21	67	44	178							322	33
TOTAL CELLULOSIC YARN	**1373**	**1530**	**1128**	**1132**	**1326**	**1566**							**8055**	**5478**
CELLULOSIC STAPLE+TOW														
CANADA	1086	774	974	797	1355	1551							6537	6549
ITALY	34	73	19	0	33	0							159	294
JAPAN	99	0	91	46	37	68							341	572
SWEDEN	0	41	45	0	20	0							106	219
UNITED KINGDOM	57	0	79	54	0	24							214	189
ALL OTHER COUNTRIES [b]	28	0	10	51	43	+							132	110
TOTAL CELLULOSIC STAPLE+TOW	**1304**	**888**	**1218**	**948**	**1488**	**1643**							**7489**	**7933**
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436	1117	1665	394	172	530							5814	5406
CANADA	1448	1872	2220	2156	2451	1677							11824	9100
CHINA, PRC	0	10	1	0	0	0							11	391
COSTA RICA	606	570	654	533	514	523							3400	3629
DENMARK	0	0	0	0	61	30							91	155
FRANCE	767	588	716	338	272	712							3393	3662
GERMANY, FED. REP.	1074	1355	1968	1078	1495	1146							8116	12022
IRELAND	37	34	74	114	150	78							487	324
ISRAEL	388	309	123	304	182	254							1560	1152
ITALY	761	811	177	1678	942	412							4781	6539
JAPAN	648	212	729	277	282	338							2486	3966
KOREA, REP. OF	3	23	33	63	0	40							162	189
MEXICO	1428	2004	1547	978	1622	1660							9239	10201
NETHERLANDS	49	42	26	31	57	4							209	650
SINGAPORE	81	41	44	19	34	35							254	227
SWITZERLAND	32	0	5	11	3	2							53	331
TAIWAN	12	26	12	53	69	34							206	312
UNITED KINGDOM	676	753	220	632	917	751							3949	4222
ALL OTHER COUNTRIES [c]	172	234	201	406	342	782							2137	690
TOTAL NONCELLULOSIC YARN	**9618**	**10001**	**10415**	**9565**	**9565**	**9008**							**58172**	**63168**
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601	727	752	1321	296	481							4178	736
BELGIUM	35	0	18	18	634	0							705	147
BRAZIL	0	0	0	499	0	0							499	1612
CANADA	2003	2183	2981	2221	2797	1824							14009	16388
FRANCE	934	799	800	957	1257	934							5681	4373
GERMANY, FED. REP.	2738	3040	2503	2478	3319	2475							16553	13319
IRELAND	80	123	162	325	406	240							1336	453
ISRAEL	8	0	0	56	0	1							65	420
ITALY	130	362	145	241	5	37							920	8660
JAPAN	1963	2057	1894	2166	1912	3095							13087	12100
KOREA, REP. OF	1355	1516	1456	1580	1295	1604							8806	5354
MALAYSIA	0	95	48	48	0	95							286	420
MEXICO	303	549	210	502	985	1043							3592	8809
ROMANIA	448	0	86	664	230	893							2321	2373
SWITZERLAND	102	21	153	189	123	122							710	597
TAIWAN	1986	1109	1425	1112	1024	1384							8040	11376
UNITED KINGDOM	1604	1503	2175	1920	1777	1745							10724	7510
ALL OTHER COUNTRIES [d]	52	30	48	48	2591	2761							5530	354
TOTAL NONCELLULOSIC STAPLE+TOW	**14342**	**14114**	**14856**	**16345**	**18651**	**18734**							**97042**	**95001**

+ Less than 1 thousand pounds.

a. Singapore 97, France 64, United Kingdom 55, Korea, Rep. of 51, Morocco 46, Italy 7, Taiwan 2.

b. France 61, Austria 41, Australia 25, Germany, Fed. Rep. 2, Mexico 2, Belgium 1.

c. Romania 911, Brazil 484, Spain 210, Chile 157, Sweden 102, Argentina 83, Australia 71, Norway 65, Turkey 34, Austria 16, Hong Kong 3, Vatican City 1, Egypt, Greece, India.

d. India 4625, Australia 786, Netherlands 40, Hong Kong 29, Finland 17, Ireland 16, Spain 8, China, PRC 5, Egypt 3, Portugal 1, Philippines.

TABLE 8:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0	+	0	64	18	16							98	290
OTHER	310.0130 & .0230[a]	1362	1468	1021	995	1210	1412							7468	5155
MONOFILAMENTS	309.0310 & .0610	0	+	0	1	1	0							2	5
STRIPS, $1/LB & UNDER	309.2000*	11	62	107	72	97	138							487	28
SUBTOTAL ABOVE		**1373**	**1530**	**1128**	**1132**	**1326**	**1566**							**8055**	**5478**
STAPLE	309.4320 & .4325	1182	888	1107	934	1354	1492							6957	7643
GROUPED FILAMENTS	309.3010 & .3310	122	0	111	14	134	151							532	290
SUBTOTAL ABOVE		**1304**	**888**	**1218**	**948**	**1488**	**1643**							**7489**	**7933**
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	0	+	0	0	0	0							+	28
NONCELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341	297	204	271	150	176							1439	838
450 DENIER AND OVER	310.0108 & .0208	1503	1643	1531	2018	1472	1080							9247	15307
- POLYESTER	310.0110 & .0210	989	1368	1024	881	1327	1749							7338	7978
- OTHER	310.0114 & .0214	2158	1830	2815	1920	1882	1811							12416	10234
OTHER - NYLON	310.0149 & .0249	1154	1567	1602	1249	1672	1267							8511	12216
- POLYESTER	310.0150 & .0250	2153	1631	1734	1657	1707	1719							10601	10367
- OTHER	310.0170 & .0270[b]	762	1085	876	922	469	453							4567	3292
MONOFILAMENTS	309.0200 & .0330[c]	381	384	307	374	454	483							2383	1732
STRIPS, OVER $1/LB	309.2100 & .2500*	177	196	322	273	432	270							1670	1204
SUBTOTAL ABOVE		**9618**	**10001**	**10415**	**9565**	**9565**	**9008**							**58172**	**63168**
STAPLE - NYLON	309.4331 & .4351	1696	1306	1915	2115	1707	1284							10023	23504
- POLYESTER	309.4336 & .4361	4653	5670	4716	4932	7498	8268							35737	32896
- ACRYLIC	309.4366	1214	953	1179	1399	1647	1377							7769	7339
- OLEFIN	309.4371	83	104	534	498	165	174							1558	284
- OTHER	309.4341 & .4390	1350	1625	1750	2008	969	1907							9609	6112
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713	2877	3289	3284	4091	3619							20873	15486
POLYESTER	309.3040 & .3340	441	215	65	421	305	376							1823	1875
ACRYLIC	309.3050 & .3350	1086	1331	1249	1664	1631	1698							8659	6487
OTHER	309.3065 & .3365	106	33	159	24	638	31							991	1018
SUBTOTAL ABOVE		**14342**	**14114**	**14856**	**16345**	**18651**	**18734**							**97042**	**95001**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940	1991	1933	1842	2391	2267							13364	13773
- POLYESTER	309.6630	550	487	1073	637	470	1233							4450	5802
- ACRYLIC	309.6645	0	0	21	110	0	2							133	132
- OTHER	309.6660	221	273	392	157	271	260							1574	2957
NOILS & GARNETTED FIBERS	309.7000*	80	0	0	33	0	0							113	31
OTHER WASTE, ADVANCED	309.7525 - .7555	596	596	637	323	366	280							2798	2159
SUBTOTAL ABOVE		**4387**	**3347**	**4056**	**3102**	**3498**	**4042**							**22432**	**24854**
TOTAL MAN-MADE ABOVE		**31024**	**29880**	**31673**	**31092**	**34528**	**34993**							**193190**	**196462**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0	0							+	+
- NONCELLULOSIC	310.1015[d]& .1205[e]	340	110	184	216	276	176							1302	2326
OTHER - CELLULOSIC	310.1030 & .1535[f]	15	21	5	34	19	22							116	304
- NONCELLULOSIC	310.1050 & .1070[g]	276	262	305	289	338	303							1773	1637
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	62	95	137	23	94	74							485	765
- OTHER	310.4015 & .4027[i]	2503	1471	1826	1155	2219	2781							11955	21396
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2122	1933	1143	1956	1629	1099							9882	11534
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	607	197	1714	585	661	789							4553	4524
SLIVER, TOPS & ROVING	309.9000	271	287	351	530	234	181							1854	3156
GLASS FIBER	309.2800 & .2900[k]	2526	2716	404	2483	2271	2344							12744	10562
GRAND TOTAL ABOVE		**39746**	**36972**	**37742**	**38363**	**42269**	**42762**							**237854**	**252666**

SOURCE: U.S. Census Bureau Report IM145X.
NES Not elsewhere specified.
+ Less than 1 thousand pounds.
* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

[a] Also includes 310.0610.

[b] Also includes 310.0530, .0550, .0630 & .0650.

[c] Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

[d] There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

[e] Also includes 310.1210.

[f] Also includes 310.2110.

[g] Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

[h] Also includes 310.5005 & .5030.

[i] Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

[j] Also includes 310.9320 & .9500.

[k] Chiefly roving. Also includes 309.9800 & .9900.

TABLE 9:
U.S. EXPORTS OF MAN-MADE FIBER
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
FILAMENT YARN [a]															
TEXTURED	310.0004	27	2	6	31	61	5							132	297
OTHER [b]	310.0026	683	991	556	1220	1231	1269							5950	2907
MONOFILAMENTS	309.0110	89	36	5	36	9	45							220	2
STRIPS	309.2210	0	23	0	0	10	2							35	57
SUBTOTAL ABOVE		**799**	**1052**	**567**	**1287**	**1311**	**1321**							**6337**	**3263**
STAPLE+TOW-RAYON	309.4222	1019	1907	1702	1468	2682	2250							11028	16756
STAPLE-ACETATE	309.4219	89	66	309	329	146	97							1036	792
SUBTOTAL ABOVE		**1108**	**1973**	**2011**	**1797**	**2828**	**2347**							**12064**	**17548**
WASTE, ADVANCED&NOT ADVANCED	309.7400	**143**	**251**	**198**	**86**	**263**	**42**							**983**	**668**
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651	4775	4929	3355	4209	4685							25604	16001
- HIGH TENACITY [c]	310.0027	8372	8470	8040	6580	6438	6533							44433	38262
- OTHER	310.0029	786	1111	2189	1186	1068	819							7159	4615
POLYESTER - TEXTURED	310.0010	1739	2796	3405	2979	3311	2690							16920	14780
- HIGH TENACITY [c]	310.0032	1421	1817	2189	2281	2706	2059							12473	11479
- OTHER [d]	310.0034	207	225	265	284	135	68							1184	982
OTHER - TEXTURED	310.0014	1067	1904	2220	1725	2118	1459							10493	8475
- OLEFIN	310.0040	83	626	121	143	161	160							1294	305
- OTHER	310.0044	360	729	886	802	688	699							4164	3550
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	658	728	515	983	523	623							4030	3390
POLYESTER	309.0140	1641	1789	2345	1784	1871	1713							11143	4545
OTHER	309.0170	680	901	768	769	847	603							4568	3699
STRIPS	309.2220 & .2270	415	192	277	442	454	394							2174	2392
SUBTOTAL ABOVE		**21080**	**26063**	**28149**	**23313**	**24529**	**22505**							**145639**	**112475**
STAPLE - NYLON	309.4240	2423	1511	1760	981	1387	1491							9553	11227
- POLYESTER	309.4242	13519	7586	10316	10132	11435	11625							64613	95878
- ACRYLIC	309.4245	17224	11389	16118	7723	12187	4510							69151	22965
- OLEFIN	309.4246	1488	1604	2696	2137	1784	1876							11585	11412
- OTHER	309.4247	1228	1696	3193	1951	2312	2229							12609	21735
GROUPED FILAMENTS															
NYLON	309.3220	693	497	469	339	601	746							3345	2410
POLYESTER [d]	309.3240	2108	1330	2067	794	2046	1953							10298	11208
ACRYLIC	309.3250 & .3255	4966	3683	3809	2267	3498	2338							20561	11742
SUBTOTAL ABOVE		**43649**	**29296**	**40428**	**26324**	**35250**	**26768**							**201715**	**188577**
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	685	1210	1189	1492	1287	2199							8062	6749
- POLYESTER	309.7630	3959	4435	6616	4231	4813	5219							29273	28474
- ACRYLIC	309.7640	312	1219	923	676	970	795							4895	5554
- OTHER	309.7660	3765	3582	3138	3474	3605	3309							20873	18854
SUBTOTAL ABOVE		**8721**	**10446**	**11866**	**9873**	**10675**	**11522**							**63103**	**59631**
TOTAL MAN-MADE ABOVE		**75500**	**69081**	**83219**	**62680**	**74856**	**64505**							**429841**	**382162**
GLASS FIBER	309.2700 & .9700	8813	9352	9114	8934	7139	8164							51516	42790
GRAND TOTAL ABOVE		**84313**	**78433**	**92333**	**71614**	**81995**	**72669**							**481357**	**424952**

SOURCE: U.S. Census Bureau Report EM522.

+ Less than 1 thousand pounds.

a. Includes singles and plied yarn.

b. Includes rayon tire cord.

c. Includes noncellulosic tire cord.

d. Includes zero twist yarns.

TABLE 10:
QUARTERLY MAN-MADE FIBER DATA

MILLION POUNDS

ITEM	1986					1987					1988				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						YARN+MONOFILAMENTS									
***CELLULOSIC YARN* [d]**															
PRODUCTION	**54.3**	**54.7**	**54.1**	**51.7**	**214.8**	**46.2**	**46.7**	**45.2**	**53.0**	**191.1**	**49.1**	**54.4**			
SHIPMENTS - DOMESTIC	48.6	50.4	47.7	45.4	192.1	39.2	43.6	40.2	43.8	166.8	41.4	47.3			
- EXPORT	4.7	5.1	4.9	5.5	20.2	5.0	5.9	6.1	7.9	24.9	8.7	7.9			
TOTAL SHIPMENTS	**53.3**	**55.5**	**52.6**	**50.9**	**212.3**	**44.2**	**49.5**	**46.3**	**51.7**	**191.7**	**50.1**	**55.2**			
ENDING STOCK	**13.3**	**12.5**	**14.0**	**14.8**		**16.8**	**14.0**	**12.9**	**14.2**		**13.2**	**12.4**			
IMPORTS	3.9	4.6	3.6	4.1	16.2	3.0	2.5	2.7	4.4	12.6	4.0	4.0			
TOTAL AVAILABLE	**52.5**	**55.0**	**51.3**	**49.5**	**208.3**	**42.2**	**46.1**	**42.9**	**48.2**	**179.4**	**45.4**	**51.3**			
NYLON															
PRODUCTION	**396.9**	**396.5**	**398.3**	**414.6**	**1606.3**	**414.1**	**427.5**	**432.9**	**422.7**	**1697.2**	**429.4**	**440.5**			
SHIPMENTS - DOMESTIC	363.4	368.7	377.7	370.6	1480.4	389.3	394.8	405.8	364.4	1554.3	388.4	395.5			
- EXPORT	26.7	28.2	25.1	32.8	112.8	32.1	37.9	33.7	35.8	139.5	39.6	38.1			
TOTAL SHIPMENTS	**390.1**	**396.9**	**402.8**	**403.4**	**1593.2**	**421.4**	**432.7**	**439.5**	**400.2**	**1693.8**	**428.0**	**433.6**			
ENDING STOCK	**126.5**	**126.1**	**121.6**	**132.8**		**125.5**	**120.3**	**113.7**	**136.2**		**137.6**	**144.5**			
***OLEFIN* [a]**															
PRODUCTION	**245.9**	**255.7**	**259.5**	**296.6**	**1057.7**	**255.8**	**283.9**	**287.4**	**306.7**	**1133.8**	**301.6**	**308.9**			
SHIPMENTS - DOMESTIC	241.3	258.4	257.8	291.7	1049.2	261.5	281.8	287.5	304.7	1135.5	298.3	302.5			
- EXPORT	2.4	2.9	2.6	2.6	10.5	2.7	1.7	1.8	2.1	8.3	2.7	5.9			
TOTAL SHIPMENTS	**243.7**	**261.3**	**260.4**	**294.3**	**1059.7**	**264.2**	**283.5**	**289.3**	**306.8**	**1143.8**	**301.0**	**308.4**			
ENDING STOCK	**67.1**	**61.5**	**60.6**	**62.9**		**54.5**	**54.9**	**53.0**	**52.9**		**53.5**	**54.0**			
POLYESTER															
PRODUCTION	**322.2**	**271.5**	**285.5**	**293.5**	**1172.7**	**287.7**	**303.3**	**293.9**	**293.8**	**1178.7**	**284.5**	**313.5**			
SHIPMENTS - DOMESTIC	284.8	253.5	273.7	280.4	1092.4	266.8	285.2	280.8	280.6	1113.4	266.7	291.9			
- EXPORT	21.8	23.8	14.3	17.4	77.3	16.4	18.4	15.8	16.3	66.9	18.8	17.8			
TOTAL SHIPMENTS	**306.6**	**277.3**	**288.0**	**297.8**	**1169.7**	**283.2**	**303.6**	**296.6**	**296.9**	**1180.3**	**285.5**	**309.7**			
ENDING STOCK	**123.5**	**117.7**	**115.2**	**110.9**		**115.4**	**115.1**	**112.4**	**109.3**		**108.3**	**112.1**			
TOTAL NONCELLULOSIC ABOVE															
PRODUCTION	**965.0**	**923.7**	**943.3**	**1004.7**	**3836.7**	**957.6**	**1014.7**	**1014.2**	**1023.2**	**4009.7**	**1015.5**	**1062.9**			
SHIPMENTS - DOMESTIC	889.5	880.6	909.2	942.7	3622.0	917.6	961.8	974.1	949.7	3803.2	953.4	989.9			
- EXPORT	50.9	54.9	42.0	52.8	200.6	51.2	58.0	51.3	54.2	214.7	61.1	61.8			
TOTAL SHIPMENTS	**940.4**	**935.5**	**951.2**	**995.5**	**3822.6**	**968.8**	**1019.8**	**1025.4**	**1003.9**	**4017.9**	**1014.5**	**1051.7**			
ENDING STOCK	**317.1**	**305.3**	**297.4**	**306.6**		**295.4**	**290.3**	**279.1**	**298.4**		**299.4**	**310.6**			
DOMESTIC SHIPMENTS	889.5	880.6	909.2	942.7	3622.0	917.6	961.8	974.1	949.7	3803.2	953.4	989.9			
IMPORTS -TEXTURED YARN [b]	17.9	19.5	20.4	24.1	81.9	19.3	15.1	17.2	16.9	68.5	15.7	14.7			
-OTHER YARN [b]	12.3	13.9	14.7	14.0	54.9	13.3	12.4	11.9	11.3	48.9	11.2	11.1			
-MONOFILAMENTS	0.8	0.6	0.5	0.8	2.7	0.8	0.9	1.0	1.1	3.8	1.8	2.3			
TOTAL IMPORTS	31.0	34.0	35.6	38.9	139.5	33.4	28.4	30.1	29.3	121.2	28.7	28.1			
TOTAL AVAILABLE	**920.5**	**914.6**	**944.8**	**981.6**	**3761.5**	**951.0**	**990.2**	**1004.2**	**979.0**	**3924.4**	**982.1**	**1018.0**			
						GLASS FIBER									
TOTAL SHIPMENTS	**330.6**	**352.6**	**333.9**	**322.2**	**1339.3**	**366.1**	**392.5**	**383.3**	**371.2**	**1513.1**	**386.4**	**415.2**			
IMPORTS	7.9	6.0	4.4	5.4	23.7	4.9	5.6	11.3	7.6	29.4	5.6	7.1			

FOOTNOTES FOR TABLE ABOVE & OPPOSITE:

"Imports" are imports for consumption, as reported by the U.S. Census Bureau.

a. Also include film fiber as well as spunbonded polypropylene.

b. Includes singles and plied.

c. These figures are composites of the nylon, acrylic+modacrylic and polyester staple imports, i.e., Commodity Numbers 309.4331, .4351 .4336 & .4361.

d. Includes both rayon & acetate yarn.

e. These figures are composites of olefin and other staple imports, i.e. Commodity Numbers 309.4371, .4341 & .4390.

f. 1987-1988 data exclude Vinyon.

TABLE 10:
QUARTERLY MAN-MADE FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1986					1987					1988				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
						STAPLE+TOW									
RAYON															
PRODUCTION	**95.1**	**99.7**	**103.4**	**105.5**	**403.7**	**101.3**	**100.5**	**103.6**	**108.4**	**413.8**	**106.6**	**101.2**			
SHIPMENTS - DOMESTIC	91.6	92.0	95.1	94.3	373.0	91.8	91.0	97.9	102.4	383.1	101.9	102.0			
- EXPORT	6.3	6.9	7.3	10.3	30.8	8.1	8.2	12.6	3.5	32.4	5.1	6.1			
TOTAL SHIPMENTS	**97.9**	**98.9**	**102.4**	**104.6**	**403.8**	**99.9**	**99.2**	**110.5**	**105.9**	**415.5**	**107.0**	**108.1**			
ENDING STOCK	**19.7**	**20.5**	**21.5**	**22.4**		**23.8**	**25.1**	**18.2**	**20.7**		**20.3**	**13.4**			
DOMESTIC SHIPMENTS	91.6	92.0	95.1	94.3	373.0	91.8	91.0	97.9	102.4	383.1	101.9	102.0			
IMPORTS FOR CONSUMPTION															
STAPLE	3.9	3.6	4.6	4.3	16.4	3.9	3.8	2.6	2.7	13.0	3.2	3.8			
GROUPED FILAMENTS	0.3	0.3	0.3	0.1	1.0	0.2	0.1	0.4	0.2	0.9	0.2	0.3			
TOTAL IMPORTS	4.2	3.9	4.9	4.4	17.4	4.1	3.9	3.0	2.9	13.9	3.4	4.1			
TOTAL AVAILABLE	**95.8**	**95.9**	**100.0**	**98.7**	**390.4**	**95.9**	**94.9**	**100.9**	**105.3**	**397.0**	**105.3**	**106.1**			
NYLON															
PRODUCTION	**220.5**	**207.4**	**236.1**	**244.3**	**908.3**	**247.4**	**261.0**	**252.8**	**231.2**	**992.4**	**230.9**	**235.8**			
SHIPMENTS-DOMESTIC	195.2	203.2	254.3	242.2	894.9	246.2	253.2	246.2	220.4	966.0	238.8	223.8			
-EXPORT	3.9	2.9	3.0	3.5	13.3	5.3	5.0	3.7	5.5	19.5	4.3	4.3			
TOTAL SHIPMENTS	**199.1**	**206.1**	**257.3**	**245.7**	**908.2**	**251.5**	**258.2**	**249.9**	**225.9**	**985.5**	**243.1**	**228.1**			
ENDING STOCK	**84.1**	**85.4**	**64.2**	**62.8**		**58.7**	**61.5**	**64.4**	**69.7**		**57.5**	**65.2**			
IMPORTS	11.9	10.6	14.9	14.6	52.0	14.8	8.7	8.6	6.9	39.0	4.9	5.1			
TOTAL AVAILABLE	**207.1**	**213.8**	**269.2**	**256.8**	**946.9**	**261.0**	**261.9**	**254.8**	**227.3**	**1005.0**	**243.7**	**228.9**			
ACRYLIC+MODACRYLIC															
PRODUCTION	**149.0**	**151.1**	**158.0**	**157.8**	**615.9**	**155.7**	**159.0**	**135.3**	**141.5**	**591.5**	**148.8**	**150.9**			
SHIPMENTS-DOMESTIC	123.1	143.7	138.7	125.7	531.2	139.4	131.6	112.8	95.5	479.3	109.0	109.3			
-EXPORT	27.1	19.2	17.8	18.8	82.9	14.7	17.0	32.0	51.4	115.1	47.7	29.1			
TOTAL SHIPMENTS	**150.2**	**162.9**	**156.5**	**144.5**	**614.1**	**154.1**	**148.6**	**144.8**	**146.9**	**594.4**	**156.7**	**138.4**			
ENDING STOCK	**63.2**	**51.4**	**52.9**	**66.2**		**67.8**	**78.2**	**68.7**	**63.3**		**55.4**	**67.9**			
IMPORTS	3.2	4.0	5.3	4.9	17.4	3.3	4.1	4.6	3.7	15.7	3.3	4.4			
TOTAL AVAILABLE	**126.3**	**147.7**	**144.0**	**130.6**	**548.6**	**142.7**	**135.7**	**117.4**	**99.2**	**495.0**	**112.3**	**113.7**			
OLEFIN+VINYON [f]															
PRODUCTION	**82.4**	**82.3**	**84.7**	**85.9**	**335.3**	**85.5**	**92.3**	**92.1**	**90.6**	**360.5**	**94.3**	**94.5**			
SHIPMENTS-DOMESTIC	73.9	82.6	76.4	79.8	312.7	81.1	85.7	86.1	88.2	341.1	83.8	87.6			
-EXPORT	4.2	4.8	4.8	5.0	18.8	6.9	5.7	5.4	4.8	22.8	5.6	5.8			
TOTAL SHIPMENTS	**78.1**	**87.4**	**81.2**	**84.8**	**331.5**	**88.0**	**91.4**	**91.5**	**93.0**	**363.9**	**89.4**	**93.4**			
ENDING STOCK	**34.0**	**28.9**	**32.4**	**33.5**		**31.0**	**31.9**	**32.5**	**30.1**		**35.0**	**36.1**			
POLYESTER															
PRODUCTION	**520.8**	**538.7**	**522.1**	**550.7**	**2132.3**	**581.0**	**596.2**	**578.4**	**606.2**	**2361.8**	**592.6**	**619.5**			
SHIPMENTS-DOMESTIC	499.1	499.9	496.3	503.3	1998.6	534.4	549.9	537.5	579.2	2201.0	563.5	572.5			
-EXPORT	25.7	25.0	31.6	42.5	124.8	48.2	47.0	38.3	34.7	168.2	27.8	31.1			
TOTAL SHIPMENTS	**524.8**	**524.9**	**527.9**	**545.8**	**2123.4**	**582.6**	**596.9**	**575.8**	**613.9**	**2369.2**	**591.3**	**603.6**			
ENDING STOCK	**151.0**	**164.8**	**159.0**	**163.9**		**162.3**	**161.6**	**164.2**	**156.5**		**157.8**	**173.7**			
IMPORTS	9.3	8.9	8.7	13.9	40.8	15.5	17.4	23.4	14.4	70.7	15.0	20.7			
TOTAL AVAILABLE	**508.4**	**508.8**	**505.0**	**517.2**	**2039.4**	**549.9**	**567.3**	**560.9**	**593.6**	**2271.7**	**578.5**	**593.2**			
TOTAL NONCELLULOSIC															
PRODUCTION	**972.7**	**979.5**	**1000.9**	**1038.7**	**3991.8**	**1069.6**	**1108.5**	**1058.6**	**1069.5**	**4306.2**	**1066.6**	**1100.7**			
SHIPMENTS-DOMESTIC	891.3	929.4	965.7	951.0	3737.4	1001.1	1020.4	982.6	983.3	3987.4	995.1	993.2			
-EXPORT	60.9	51.9	57.2	69.8	239.8	75.1	74.7	79.4	96.4	325.6	85.4	70.3			
TOTAL SHIPMENTS	**952.2**	**981.3**	**1022.9**	**1020.8**	**3977.2**	**1076.2**	**1095.1**	**1062.0**	**1079.7**	**4313.0**	**1080.5**	**1063.5**			
ENDING STOCK	**332.3**	**330.5**	**308.5**	**326.4**		**319.8**	**333.2**	**329.8**	**319.6**		**305.7**	**342.9**			
DOMESTIC SHIPMENTS	891.3	929.4	965.7	951.0	3737.4	1001.1	1020.4	982.6	983.3	3987.4	995.1	993.2			
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE [c]	24.4	23.5	28.9	33.4	110.2	33.6	30.2	36.6	25.0	125.4	23.2	30.2			
OTHER N.C. STAPLE [e]	7.2	4.4	2.5	2.0	16.1	2.8	3.6	3.7	3.4	13.5	5.6	5.7			
GROUPED FILAMENTS	14.4	15.0	14.7	12.4	56.5	12.4	12.4	12.1	13.1	50.0	14.5	17.8			
TOTAL IMPORTS	46.0	42.9	46.1	47.8	182.8	48.8	46.2	52.4	41.5	188.9	43.3	53.7			
TOTAL AVAILABLE	**937.3**	**972.3**	**1011.8**	**998.8**	**3920.2**	**1049.9**	**1066.6**	**1035.0**	**1024.8**	**4176.3**	**1038.4**	**1046.9**			

See footnotes on opposite page.

TABLE 11:
SELECTED U.S. MONTHLY FIBER DATA

MILLION POUNDS

	1988												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
	MAN-MADE FIBER TOTAL SHIPMENTS[b c]													
CELLULOSIC														
YARN	15.9	16.1	18.1	19.4	18.3	17.5	19.1						124.4	108.3
RAYON STAPLE	32.6	35.9	38.5	35.5	36.4	36.2	29.1						244.2	232.7
TOTAL CELLULOSIC	**48.5**	**52.0**	**56.6**	**54.9**	**54.7**	**53.7**	**48.2**						**368.6**	**341.0**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5	32.1	34.8	32.2	30.8	32.4	32.4						222.2	220.2
- CARPET	72.6	80.7	84.6	80.7	81.9	79.3	73.7						553.5	554.6
- TEXTILE[f]	30.0	31.2	34.5	31.7	32.0	32.6	27.7						219.7	221.4
POLYESTER - INDUSTRIAL[d]	26.5	29.3	30.7	31.3	29.4	31.3	29.3						208.8	192.3
- TEXTILE[f]	62.9	68.4	67.7	74.3	71.9	70.5	70.2						485.9	492.9
OLEFIN[e]	97.2	101.4	102.4	102.7	102.9	102.8	86.3						695.7	630.9
TOTAL YARN	**316.7**	**343.1**	**354.7**	**352.9**	**348.9**	**349.9**	**319.6**						**2385.8**	**2312.3**
STAPLE+TOW+FIBERFILL														
NYLON	78.0	81.7	83.4	71.0	77.9	79.2	75.0						546.2	591.3
ACRYLIC+MODACRYLIC	48.5	52.8	55.4	45.4	45.6	47.4	42.1						337.2	350.2
POLYESTER	190.4	202.4	198.5	212.1	195.8	195.7	185.2						1380.1	1361.1
OLEFIN	29.1	29.6	30.7	29.8	31.2	32.4	26.9						209.7	206.3
TOTAL STAPLE	**346.0**	**366.5**	**368.0**	**358.3**	**350.5**	**354.7**	**329.2**						**2473.2**	**2508.9**
TOTAL NONCELLULOSIC	**622.7**	**709.6**	**722.7**	**711.2**	**699.4**	**704.6**	**648.8**						**4859.0**	**4821.2**
TOTAL MAN-MADE FIBER	**711.2**	**761.6**	**779.3**	**766.1**	**754.1**	**758.3**	**697.0**						**5227.6**	**5162.2**
	MAN-MADE FIBER END OF MONTH STOCK													
CELLULOSIC														
YARN	12.3	13.3	13.2	14.0	12.8	12.4	13.4						13.4	14.0
RAYON STAPLE	23.5	22.5	20.3	18.0	16.5	13.4	15.5						15.5	25.0
TOTAL CELLULOSIC	**35.8**	**35.8**	**33.5**	**32.0**	**29.3**	**25.8**	**28.9**						**28.9**	**39.0**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6	25.7	23.5	23.3	25.2	24.7	28.1						28.1	26.5
- CARPET	72.0	66.5	67.0	67.1	70.2	71.9	78.0						78.0	52.7
- TEXTILE[f]	51.8	50.1	47.1	47.2	48.7	47.8	51.9						51.9	48.6
POLYESTER - INDUSTRIAL[d]	29.8	29.2	28.8	29.6	30.5	29.2	33.3						33.3	31.6
- TEXTILE[f]	82.5	81.5	79.5	77.3	79.7	82.9	94.4						94.4	85.6
OLEFIN[e]	54.4	55.0	53.5	54.1	54.5	54.0	55.3						55.3	57.0
TOTAL YARN	**317.1**	**308.0**	**299.4**	**298.6**	**308.8**	**310.5**	**341.0**						**341.0**	**302.0**
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7	57.5	64.4	60.5	65.2	66.5						66.5	66.9
ACRYLIC+MODACRYLIC	62.4	58.8	55.4	57.9	63.7	67.9	72.8						72.8	73.9
POLYESTER	173.7	168.3	157.8	161.8	167.4	173.7	205.7						205.7	182.1
OLEFIN	32.5	33.7	35.0	35.8	37.8	36.1	38.5						38.5	34.5
TOTAL STAPLE	**332.0**	**325.5**	**305.7**	**319.9**	**329.4**	**342.9**	**383.5**						**383.5**	**357.4**
TOTAL NONCELLULOSIC	**649.1**	**633.5**	**605.1**	**618.5**	**637.6**	**653.4**	**724.5**						**724.5**	**659.4**
TOTAL MAN-MADE FIBER	**684.9**	**669.3**	**638.6**	**650.5**	**666.9**	**679.2**	**753.7**						**753.7**	**698.4**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.9	11.7	14.1	11.3	11.5	13.0							74.5	82.9
CARPET CLASS WOOL	1.4	1.5	1.6	1.4	1.4	1.1							8.4	6.2
TOTAL RAW WOOL	14.3	13.2	15.7	12.7	12.9	14.1							82.9	89.1
RAW COTTON	300.0	311.4	339.3	278.0	302.6	294.1							1825.4	1863.9

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.

MAN-MADE FIBER REVIEW

A four-page *monthly* REVIEW with *up-to-the-minute* data for those who need the *very latest* industry figures *quickly.*

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MAN-MADE
FIBER REVIEW

A Monthly Summary of Fiber Production Information Vol. 6, No. 6 JUNE 1987

HIGHLIGHTS

- SAMPLE -

In May, production of noncellulosic fibers (except aramid, saran and spandex) totaled 712.8 million pounds, 2.1% above the 698.2 million pounds produced in April. Filament yarn production rose 1.4% to 336.0 million pounds and staple+tow rose 2.7% to 376.8 million pounds.

Shipments of noncellulosic fibers (except aramid, saran and spandex) rose in May to 712.5 million pounds, up 2.2% from the 696.9 million pounds shipped in April. Deliveries of filament yarn rose 4.8% to 345.7 million pounds and shipments of staple+tow rose 0.2% to 366.8 million pounds.

May producer exports of polyester staple+tow fell 12.2% to 13.6 million pounds and exports of acrylic+ modacrylic staple+tow rose to 7.4 million pounds, up 95.0%. For May 1987, producer exports of polyester staple+tow were 39.0% above the 9.8 million pounds exported in May 1986.

May shipments of noncellulosic fibers to the carpet trades rose to 185.4 million pounds, up 7.0% from the 173.3 million pounds shipped in April. Nylon staple+tow rose by 2.9%, nylon yarn rose by 12.0% and polyester staple+tow rose by 4.3%.

As of the end of May, stocks of noncellulosic fibers rose to 617.9 million pounds, up 0.1% from 617.6 million pounds in April. Stocks of staple+tow rose 3.1% and stocks of filament yarn fell 3.3%.

MAN-MADE FIBER PRODUCTION DATA

MILLION POUNDS & *PERCENT CHANGE*

	1987			1986		YEAR TO DATE		
ITEM	MAY	APR	%[a]	MAY	%[b]	1987	1986	%[c]
YARN+MONOFILAMENTS								
CELLULOSIC YARN	**15.6**	**14.9**	***+4.7***	**19.0**	***-17.9***	**76.7**	**91.5**	***-16.2***
NYLON[d] - INDUSTRIAL	33.7	31.8	*+6.0*	28.7	*+17.4*	155.8	143.0	*+9.0*
CARPET	82.1	77.0	*+6.6*	77.7	*+5.7*	389.3	371.3	*+4.8*
- TEXTILE[e]	32.8	32.8	--	31.7	*+3.5*	159.2	154.4	*+3.1*
POLYESTER - INDUSTRIAL	27.5	28.9	*-4.8*	26.1	*+5.4*	138.4	137.5	*+0.7*
- TEXTILE[e]	70.4	71.3	*-1.3*	68.0	*+3.5*	347.4	374.0	*-7.1*
OLEFIN	89.5	89.6	*-0.1*	81.9	*+9.3*	442.5	414.1	*+6.9*
TOTAL NONCELLULOSIC ABOVE	**336.0**	**331.4**	***+1.4***	**314.1**	***+7.0***	**1632.6**	**1594.3**	***+2.4***
STAPLE +TOW+FIBERFILL								
RAYON	**32.8**	**34.1**	***-3.8***	**33.2**	***-1.2***	**168.2**	**161.4**	***+4.2***
NYLON[d]	89.8	87.7	*+2.4*	70.8	*+26.8*	424.9	363.4	*+16.9*
ACRYLIC+MODACRYLIC	53.8	53.5	*+0.6*	52.0	*+3.5*	263.0	250.3	*+5.1*
POLYESTER	202.7	195.2	*+3.8*	185.7	*+9.2*	978.9	884.9	*+10.6*
OLEFIN+VINYON[f]	30.5	30.4	*+0.3*	27.3	*+11.7*	146.4	135.6	*+8.0*
TOTAL NONCELLULOSIC ABOVE	**376.8**	**366.8**	***+2.7***	**335.8**	***+12.2***	**1813.2**	**1634.2**	***+11.0***

a. Percent change from previous monthtocurrent month.
b. Percent change to current month from same month last year.
c. Percent change from cumulative total last year to cumulative total this year.
d. Nylon excludes Aramid.
e. Low denier industrial nylon and polyester is included with Textile.
f. 1987 data no longer includes Vinyon.

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NONCELLULOSIC YARN+MONOFILAMENTS
PRODUCTION, SHIPMENTS & STOCK
MONTHLY 1987
MILLION POUNDS

	1987												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
NYLON														
INDUSTRIAL[a]														
Domestic Shipments-Tires	13.6	15.3	14.7	12.0	11.7								67.3	62.1
-Other	8.0	8.2	9.3	9.9	9.6								45.0	44.6
Export	9.4	9.3	6.6	7.6	14.4								47.3	34.6
Ending Stock	29.2	24.9	26.7	29.0	27.0								27.0	27.2
CARPET														
Domestic Shipments	73.9	76.0	78.6	75.1	84.1								387.7	351.3
Export	1.2	1.6	1.3	1.8	2.1								8.0	7.4
Ending Stock	56.6	55.5	52.3	52.4	48.3								48.3	59.0
TEXTILE[d]														
Domestic Shipments	29.8	29.6	32.3	31.2	31.4								154.3	152.0
Export	0.7	0.8	1.2	0.9	1.0								4.6	4.4
Ending Stock	49.6	49.4	46.5	47.2	47.6								47.6	45.8
TOTAL NYLON ABOVE														
PRODUCTION	**139.2**	**135.2**	**139.7**	**141.6**	**148.6**								**704.3**	**668.7**
Domestic Shipments	125.3	129.1	134.9	128.2	136.8								654.3	610.0
Export	11.3	11.7	9.1	10.3	17.5								59.9	46.4
TOTAL SHIPMENTS	**136.6**	**140.8**	**144.0**	**138.5**	**154.3**								**714.2**	**656.4**
ENDING STOCK	**135.4**	**129.8**	**125.5**	**128.6**	**122.9**								**122.9**	**132.0**
POLYESTER														
INDUSTRIAL[a]														
Domestic Shipments-Tires	13.8	13.3	13.8	14.0	13.8								68.7	64.2
-Other	10.4	11.4	12.6	11.5	11.6								57.5	56.5
Export	2.4	2.9	3.0	2.2	2.6								13.1	12.1
Ending Stock	30.6	30.0	27.8	29.0	28.5								28.5	28.9
TEXTILE[d]														
Domestic Shipments by Denier														
40+50 (55 & Finer)	2.1	2.4	3.1	3.2	3.2								14.0	12.8
70 (56-89)	10.9	8.8	10.9	9.8	10.2								50.6	52.9
100 (90-109)	2.9	4.0	4.1	4.1	4.0								19.1	28.2
120 (110-129) & 135 (130-144)	0.9	1.5	1.4	1.0	1.0								5.8	3.6
150 (145-179)	40.9	40.0	43.6	49.2	45.6								219.3	212.2
200 (180 & Coarser)	4.3	4.6	6.1	5.8	6.1								26.9	29.0
Total Textile Domestic	62.0	61.3	69.2	73.1	70.1								335.7	338.7
Domestic Shipments also Divided as														
Textured Yarn	48.8	47.2	53.3	58.0	55.0								262.3	269.2
Flat Yarn	13.2	14.1	15.9	15.1	15.1								73.4	69.5
Export	1.3	2.7	3.1	2.6	3.5								13.2	27.1
Ending Stock	85.6	88.8	87.6	83.2	80.0								80.0	91.9
TOTAL POLYESTER ABOVE														
PRODUCTION	**95.2**	**94.2**	**98.3**	**100.2**	**97.9**								**485.8**	**511.5**
Domestic Shipments	86.2	86.0	95.6	98.6	95.5								461.9	459.4
of Which Indirect Exports	'5.2	'4.9	*5.1*	'5.8	*4.2*								*25.2*	*38.7*
Export	3.7	5.6	6.1	4.8	6.1								26.3	39.2
TOTAL SHIPMENTS	**89.9**	**91.6**	**101.7**	**103.4**	**101.6**								**488.2**	**498.6**
ENDING STOCK	**116.2**	**118.8**	**115.4**	**112.2**	**108.5**								**108.5**	**120.8**
OLEFIN														
PRODUCTION	**84.1**	**88.5**	**90.8**	**89.6**	**89.5**								**442.5**	**414.1**
Shipments														
Filament Yarn	17.2	20.3	19.5	19.7	19.7								96.4	82.6
Film Fiber & Other	75.1	67.3	71.3	69.2	70.1								353.0	330.0
TOTAL SHIPMENTS	**92.3**	**87.6**	**90.8**	**88.9**	**89.8**								**449.4**	**412.6**
ENDING STOCK	**54.7**	**55.6**	**55.6**	**56.3**	**56.0**								**56.0**	**66.4**
TOTAL ABOVE[c]														
PRODUCTION	**318.5**	**317.9**	**328.8**	**331.4**	**336.0**								**1632.6**	**1594.3**
SHIPMENTS	**318.8**	**320.0**	**336.5**	**330.8**	**345.7**								**1651.8**	**1567.6**
ENDING STOCK	**306.3**	**304.2**	**296.5**	**297.1**	**287.4**								**287.4**	**319.2**

See footnotes opposite.

NONCELLULOSIC STAPLE+TOW+FIBERFILL
PRODUCTION, SHIPMENTS & STOCK

MONTHLY 1987

MILLION POUNDS

	1987												YEAR TO DATE	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
NYLON														
PRODUCTION - TOTAL	**80.6**	**75.7**	**91.1**	**87.7**	**89.8**								**424.9**	**363.4**
Domestic Shipments by Denier														
Less than 10	8.9	8.5	8.4	9.3	7.3								42.4	39.3
10, Less than 15	3.0	1.9	1.7	1.6	3.4								11.6	14.4
15, Less than 20	66.2	64.3	68.0	71.2	73.6								343.3	254.2
20 & Coarser	5.0	4.5	5.8	4.9	4.8								25.0	24.3
Total Domestic Shipments	83.1	79.2	83.9	87.0	89.1								422.3	332.2
Domestic Shipments also Divided as														
Carpet	77.6	73.6	79.0	81.9	84.3								396.4	307.1
Other	5.5	5.6	4.9	5.1	4.8								25.9	25.1
Export	1.0	2.0	2.3	1.7	2.0								9.0	5.9
TOTAL SHIPMENTS	**84.1**	**81.2**	**86.2**	**88.7**	**91.1**								**431.3**	**338.1**
ENDING STOCK	**59.3**	**53.8**	**58.7**	**57.7**	**56.4**								**56.4**	**88.0**
ACRYLIC+MODACRYLIC														
PRODUCTION - TOTAL	**51.2**	**50.4**	**54.1**	**53.5**	**53.8**								**263.0**	**250.3**
Domestic Shipments by Denier														
Less than 4	33.1	35.2	39.1	37.4	36.0								180.8	168.1
4, Less than 10 and 10 & Coarser	10.9	10.2	10.9	10.0	8.9								50.9	52.5
Total Domestic Shipments	44.0	45.4	50.0	47.4	44.9								231.7	220.6
Export	5.2	5.3	4.2	3.8	7.4								25.9	40.7
TOTAL SHIPMENTS	**49.2**	**50.7**	**54.2**	**51.2**	**52.3**								**257.6**	**261.3**
ENDING STOCK	**68.2**	**67.9**	**67.8**	**70.1**	**71.6**								**71.6**	**53.4**
POLYESTER														
PRODUCTION - TOTAL	***198.9**	***184.0**	***198.1**	***195.2**	**202.7**								**978.9**	**884.9**
Domestic Shipments by Denier														
Fiberfill	27.3	29.9	31.7	27.1	27.3								143.3	118.5
Less than 1.3	*47.2	*47.2	*51.6	*50.1	50.7								246.8	202.6
1.3. Less than 2.5	60.9	62.4	*66.8	65.0	64.8								319.9	371.4
2.5, Less than 5.5	*10.3	9.9	11.3	*12.3	11.1								54.9	53.6
5.5, Less than 10	*6.6	*8.2	*6.5	*6.6	5.9								33.8	30.9
10 & Coarser	*16.2	*19.1	*21.3	*18.5	20.0								95.1	70.8
Total Domestic Shipments	*168.5	*176.7	*189.2	*179.6	179.8								893.8	847.8
Domestic Shipments also Divided as														
Carpet	*13.1	*15.9	*17.8	*16.3	17.0								80.1	58.1
Other	*155.4	*160.8	*171.4	*163.3	162.8								813.7	789.7
Export	16.3	15.5	16.4	15.5	13.6								77.3	41.7
TOTAL SHIPMENTS	***184.8**	***192.2**	***205.6**	***195.1**	**193.4**								**971.1**	**889.5**
ENDING STOCK	**178.0**	**169.8**	**162.3**	**162.4**	**171.7**								**171.7**	**150.4**
OLEFIN & VINYON[e]														
PRODUCTION	**28.0**	**27.2**	***30.3**	***30.4**	**30.5**								**146.4**	**135.6**
SHIPMENTS	**28.2**	**27.9**	***31.9**	**31.1**	**30.0**								**149.1**	**135.6**
ENDING STOCK	**33.3**	**32.6**	***31.0**	**30.3**	**30.8**								**30.8**	**29.7**
TOTAL ABOVE														
PRODUCTION	***358.7**	***337.3**	***373.6**	***366.8**	**376.8**								**1813.2**	**1634.2**
SHIPMENTS	***346.3**	***352.0**	***377.9**	***366.1**	**366.8**								**1809.1**	**1624.5**
ENDING STOCK	**338.8**	**324.1**	***319.8**	**320.5**	**330.5**								**330.5**	**321.5**

*. Revisions in the previous month.
a. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
b. Low denier industrial is finer than 500 denier with an Instron tenacity over 5.5 grams per denier.
c. Does not include saran or spandex.
d. Low denier industrial nylon and polyester included with Textile.
e. 1987 data excludes vinyon.

CELLULOSIC YARN & STAPLE+TOW PRODUCTION, SHIPMENTS & STOCK

MONTHLY 1987

MILLION POUNDS

ITEM	1987												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
	YARN+MONOFILAMENTS													
CELLULOSIC YARN														
PRODUCTION	**17.7**	**14.0**	**14.5**	**14.9**	**15.6**								**76.7**	**91.5**
SHIPMENTS-Domestic	12.8	12.3	14.1	14.5	14.3								68.0	83.3
-Export	1.8	1.4	1.8	2.0	1.8								8.8	8.3
-TOTAL	**14.6**	**13.7**	**15.9**	**16.5**	**16.1**								**76.8**	**91.6**
ENDING STOCK	**17.9**	**18.2**	**16.8**	**15.2**	**14.7**								**14.7**	**12.2**
INCLUDES ACETATE AND RAYON YARN+MONOFILAMENT.														
	STAPLE+TOW													
RAYON														
PRODUCTION	**36.0**	**31.5**	**33.8**	**34.1**	**32.8**								**168.2**	**161.4**
SHIPMENTS-Domestic	31.2	27.7	32.9	31.2	29.2								152.2	154.9
-Export	2.9	2.0	3.2	2.0	2.4								12.5	10.6
-TOTAL	**34.1**	**29.7**	**36.1**	**33.2**	**31.6**								**164.7**	**165.5**
ENDING STOCK	**24.3**	**26.1**	**23.8**	**24.7**	**25.9**								**25.9**	**18.4**

ESTIMATED U.S. MILL CONSUMPTION

MILLION POUNDS

ITEM	1987												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1987	1986
CELLULOSIC														
YARN	14	13	15	15									57	72
STAPLE	33	30	36	34									133	132
TOTAL CELLULOSIC	**47**	**43**	**51**	**49**									**190**	**204**
NONCELLULOSIC														
YARN	315	314	333	327									1289	1220
STAPLE	357	360	389	375									1481	1333
TOTAL NONCELLULOSIC	**672**	**674**	**722**	**702**									**2770**	**2553**
TOTAL MAN-MADE FIBERS [a]	**719**	**717**	**773**	**751**									**2960**	**2757**
COTTON	302	282	341	312									1237	1064
WOOL	15	14	16	15									60	56
TOTAL FIBER	**1036**	**1013**	**1130**	**1078**									**4257**	**3877**
% OF MILL CONSUMPTION														
MAN-MADE FIBERS	*69*	*71*	*68*	*70*									*70*	*71*
COTTON	*29*	*28*	*30*	*29*									*29*	*27*
WOOL	*2*	*1*	*2*	*1*									*1*	*2*

[a] Excludes textile glass fiber, acetate cigarette tow and Aramid.

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TEXTILE ORGANON

Volume 59, No. 9 ☐ **September 1988**

A publication of *Textile Economics Bureau, Inc.*

MAN-MADE FIBER, COTTON & WOOL END USE SURVEY

HIGHLIGHTS

- Annual Man-Made Fiber, Cotton and Wool End Use Survey.
- Man-Made Fiber & Semimanufactured Imports 1983 -1987 . . . see page 202.

This month's issue of the ***Textile Organon*** contains our annual report of U.S. man-made, cotton and wool fiber consumption by end use. This report is part of a continuing series covering fiber end use for the 39 years 1949-1987.

The objective of this survey is to measure the amount of raw man-made, cotton and wool fiber required to produce the various end use items. Many other fibers such as silk, linen, jute and sisal are used in the various products covered by the survey, but no poundage data for these fibers are included in the end usages.

Comparability With Past Data

Every year we report the most up-to-date information on fiber end use, which means previous data must sometimes be revised. Data in a series which has been revised will be denoted by an "r". Changes in definitions or coverage in an end use item will be noted in the definitions.

For example, data on glass fiber are no longer available to prevent disclosure of company-level data. These data were last reported in the September 1985 issue. There are new definitions for waste, apparel, home furnishings and industrial and other consumer-type items.

The data in this survey may be used in conjunction with earlier issues of the ***Textile Organon*** as follows:

Years	***Textile Organon Issues***
1949-1955	November 1961
1956-1959	January 1966
1960-1963	January 1970
1964-1965	November 1971
1966-1967	November 1973
1968-1969	November 1975
1970	November 1976
1971-1972	November & December 1978
1973	November 1980
1974	November 1981
1975	November 1982
1976	November 1983
1977	September 1984
1978	September 1985
1979	September 1986
1983	September 1987

Continued On Page 199

TABLE 1:
U.S. FIBER CONSUMPTION BY END USE [a]

	TOTAL FIBER								MAN-MADE FIBER							
	MILLION POUNDS				% OF TOTAL END USE [b]				MILLION POUNDS				% OF TOTAL END USE [b]			
END USE	1984	1985	1986	1987	1984	1985	1986	1987	1984	1985	1986	1987	1984	1985	1986	1987
APPAREL	4389	4282	4758	5393	*39*	*37*	*38*	*40*	2500	2375	2638	2796	*31*	*29*	*30*	*31*
HOME FURNISHINGS	1849	1895	1938	2019	*16*	*17*	*16*	*15*	965	965	900	872	*12*	*12*	*10*	*10*
FLOOR COVERINGS	2287	2565	2800	2975	*20*	*22*	*22*	*22*	2259	2538	2767	2934	*28*	*31*	*31*	*32*
INDUSTRIAL & OTHER CONS. - TYPE PROD	2505	2468	2620	2620	*22*	*21*	*21*	*20*	2108	2080	2238	2234	*26*	*25*	*26*	*24*
EXPORTS	280	328	384	406	*3*	*3*	*3*	*3*	191	210	232	264	*3*	*3*	*3*	*3*
TOTAL END USE	**11310**	**11538**	**12500**	**13413**	***100***	***100***	***100***	***100***	**8023**	**8168**	**8775**	**9100**	***100***	***100***	***100***	***100***

All data are drawn from the U.S. End Use Summary table on page 200.

NOTE: Data on Glass Fiber is no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. Includes domestic shipments, fiber, yarn, fabric imports and waste.

b. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add to 100% vertically.

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TEXTILE ECONOMICS BUREAU, INC.
President
Rosemarie D. Frick

Editor, Textile Organon
David S. Morey

Publishing Headquarters:
Textile Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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SURVEY COVERAGE

Table Presentation

End use data are presented by type of fiber, man-made, cotton and wool; by type of end use product; and by exports of domestic semimanufactured products. All data are in millions of pounds.

Table 1 shows both total and man-made fiber consumption by end use for the years 1984, 1985, 1986 and 1987. In addition to the pounds of fiber consumed, the percentage of total end use is reported for five categories: apparel, home furnishings, floor coverings, industrial and other consumer-type products and exports.

Table 2 presents greater fiber and annual detail than Table 1. Percentage distributions are given for both total end use and for individual end uses.

Tables 3, 4 & 5 will be discussed below under the heading "End Use Versus Available Supply."

Tables 7 through 10 give further detail on each of the five end uses reported in Table 2, covering the same five year period 1983-1987. The major change in Tables 7-10 this year is: Home Furnishings Item 51 is now "Curtains & Drapery", and Item 52 is "Upholstery" only (Table 8).

The substantial imports of finished products, such as apparel, blankets, tablecloths and rugs are not included in this survey as they are not manufactured in domestic mills.

Fibers Covered

The man-made fiber data are presented in two general categories. Cellulosic, which includes rayon and acetate, and Noncellulosic, which includes nylon, polyester, acrylic and olefin. Glass fiber is no longer included. See footnote (b) under General Notes on page 210 for additional descriptions. The cotton end use data cover raw cotton. Cotton waste and cotton linters quantities are excluded, except when pertaining to waste. See the section describing waste fiber coverage for further explanation. Wool data cover both virgin and reprocessed and reused wool.

The man-made fiber data are based on producers' domestic shipments plus imports of fiber, yarn and semimanufactured products. For cotton, the data of the National Cotton Council, primarily from its publication "Cotton Counts Its Customers", and for wool, the Wool Bureau and government data as well as estimates from other trade sources were employed.

SURVEY WASTE FIBER COVERAGE

In the survey, textile fiber waste is handled in three different ways: First, end uses which employ waste fiber, either wholly or in part without preliminary processing are not included (e.g., furniture stuffing, mattress felts, punched or needled felts for carpet & rug underlays, pressed wool felts and some nonwoven fabrics).

Second, for certain end uses which utilize both new fiber and the fiber derived from processed waste, the quantities shown have been calculated so as to exclude the waste component inasmuch as possible.

And third, waste which has been processed into usable spinnable fiber is included in the quantities shown for Blankets (Item 46), Carpets & Rugs (Item 50) and a number of other applications. It is important to note that in products such as these, fiber derived from waste by preliminary processing, especially for the man-made fiber quantities, is a significant and measured part of the total end use.

END USE VERSUS AVAILABLE SUPPLY

Available Supply (mill consumption plus semimanufactured imports) is compared with End Use Consumption, in Table 4 on page 201. There are several reasons for the differences between these two series, many of which are related to the specific fibers.

COTTON: The National Cotton Council reports that there are two principal reasons why end use consumption is below available supply: (1) many small end uses are not included in the survey and (2) estimates of materials consumed are based on "typical" cotton yarns and fabrics, not on the actual weights of every type of yarn and fabric consumed in the various end uses.

Timing and inventory changes also play a significant role. For example, some raw cotton correctly reported as "consumed" by the Census Bureau in a calendar year is not actually incorporated into end products until the next year because of time lags and inventory fluctuations involved in moving from raw fiber in the bale to a finished garment or other textile product. Similarly, an indeterminate amount of cotton consumed in any year may not be embodied in finished products until the following year.

As noted, the cotton series presented in this survey are mainly those of the National Cotton Council as published in its annual survey "Cotton Counts Its Customers" (1988 and earlier editions).

WOOL: Blends of wool with other fibers are common in many end uses, but little information is available on the fiber composition of these blends. Thus, relatively reliable measures are available mainly on the wool poundages used in Home Furnishings (blankets and carpets) and such Apparel items as Craft Yarns.

These quantities were deducted from the Available Supply in Table 3, page 201, and residual quantities were then attributed to Apparel Usage in individual apparel items from the years 1983-1987. This was calculated by correlating the data of Census reports MA-23A and MQ-22T on Apparel and Broad Woven Goods, respectively.

Continued On Page 200

TABLE 2:
U.S. END USE SUMMARY EXCLUDING GLASS FIBER
MILLION POUNDS & *PERCENT*

END USE & YEAR	GRAND TOTAL			COTTON			WOOL			MAN-MADE FIBERS			MAN-MADE FIBER DETAIL									
													CELLULOSIC					NONCELLULOSIC				
													TOTAL					TOTAL				
	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	LBS	%[a]	%[b]	YARN LBS	STAPLE LBS	LBS	%[a]	%[b]	YARN LBS	STAPLE LBS
APPAREL																						
1983	4565	100	40.5	1646	36.0	56.1	153	3.4	75.0	2766	60.6	34.0	228	5.0	39.6	154	74	2538	55.6	33.6	1173	1365
1984	4389	100	38.8	1718	39.1	56.2	171	3.9	74.0	2500	57.0	31.2	239	5.5	41.5	153	86	2261	51.5	30.4	1117	1144
1985	4282	100	37.1	1766	41.2	55.6	141	3.3	72.7	2375	55.5	29.1	208	4.9	38.4	141	67	2167	50.6	28.4	1086	1081
1986	4758	100	38.0	1961	41.2	55.9	159	3.3	73.6	2638	55.5	30.1	250	5.3	41.3	151	99	2388	50.2	29.2	1040	1348
1987	5393	100	40.2	2440	45.2	59.7	157	3.0	69.2	2796	51.8	30.7	236	4.4	40.3	123	113	2560	47.4	30.2	1138	1422
HOME FURNISHINGS																						
1983	1775	100	15.8	798	45.0	27.2	19	1.0	9.3	958	54.0	11.8	134	7.5	23.3	28	106	824	46.5	10.9	260	564
1984	1849	100	16.3	863	46.7	28.2	21	1.1	9.1	965	52.2	12.0	133	7.2	23.1	27	106	832	45.0	11.2	258	574
1985	1895	100	16.4	912	48.1	28.7	18	0.9	9.3	965	51.0	11.8	125	6.6	23.1	18	107	840	44.4	11.0	293	547
1986	1938	100	15.5	1020	52.6	29.1	18	0.9	8.3	900	46.5	10.3	131	6.8	21.6	17	114	769	39.7	9.4	245	524
1987	2019	100	15.1	1129	55.9	27.6	18	0.9	7.9	872	43.2	9.6	139	6.9	23.7	22	117	733	36.3	8.6	239	494
FLOOR COVERINGS																						
1983	2207	100	19.6	14	0.6	0.5	13	0.6	6.4	2180	98.8	26.8	1	0.1	0.2	0	1	2179	98.7	28.9	1064	1115
1984	2287	100	20.2	14	0.6	0.5	14	0.6	6.1	2259	98.8	28.2	1	0.1	0.1	0	1	2258	98.7	30.3	1162	1096
1985	2565	100	22.2	15	0.6	0.5	12	0.5	6.2	2538	98.9	31.1	1	0	0.2	0	1	2537	98.9	33.3	1399	1136
1986	2800	100	22.4	16	0.6	0.4	17	0.6	7.9	2767	98.8	31.5	2	0.1	0.3	0	2	2765	98.7	33.8	1535	1230
1987	2975	100	22.2	17	0.6	0.4	24	0.8	10.6	2934	98.6	32.2	1	0	0.2	0	1	2933	98.6	34.4	1614	1319
INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS																						
1983	2434	100	21.6	382	15.7	13.0	14	0.6	6.9	2038	83.7	25.1	196	8.0	34.0	23	173	1842	75.7	24.4	987	855
1984	2505	100	22.1	376	15.0	12.3	21	0.8	9.1	2108	84.2	26.3	187	7.5	32.5	28	159	1921	76.7	25.8	998	923
1985	2468	100	21.4	375	15.1	11.8	13	0.5	6.7	2080	84.4	25.5	192	7.9	35.4	30	162	1888	76.5	24.8	969	919
1986	2620	100	21.0	369	14.1	10.5	13	0.5	6.0	2238	85.4	25.5	204	7.8	33.7	28	176	2034	77.6	24.9	1107	927
1987	2620	100	19.5	373	14.2	9.1	13	0.5	5.7	2234	85.3	24.6	188	7.2	32.1	22	166	2046	78.1	24.0	1063	983
EXPORTS OF DOMESTIC PRODUCTS																						
1983	284	100	2.5	93	32.7	3.2	5	1.8	2.4	186	65.5	2.3	17	6.0	2.9	11	6	169	59.5	2.2	70	99
1984	280	100	2.6	85	30.4	2.8	4	1.4	1.7	191	68.2	2.3	16	5.7	2.8	10	6	175	62.5	2.3	73	102
1985	328	100	2.9	108	33.0	3.4	10	3.0	5.1	210	64.0	2.5	16	4.9	2.9	9	7	194	59.1	2.5	76	118
1986	384	100	3.1	143	37.2	4.1	9	2.4	4.2	232	60.4	2.6	19	4.9	3.1	11	8	213	55.5	2.7	88	125
1987	406	100	3.0	127	31.3	3.2	15	3.7	6.6	264	65.0	2.9	22	5.4	3.7	13	9	242	59.6	2.8	100	142
TOTAL END USE CONSUMPTION																						
1983	11265	100	100	2933	26.0	100	204	1.8	100	8128	72.2	100	576	5.2	100	216	360	7552	67.0	100	3554	3998
1984	11310	100	100	3056	27.0	100	231	2.1	100	8023	70.9	100	576	5.1	100	218	358	7447	65.8	100	3608	3839
1985	11538	100	100	3176	26.8	100	194	1.7	100	8168	71.5	100	542	4.7	100	198	344	7626	66.8	100	3823	3803
1986	12500	100	100	3509	27.3	100	216	1.7	100	8775	71.0	100	606	4.9	100	207	399	8169	66.1	100	4015	4154
1987	13413	100	100	4086	29.8	100	227	1.7	100	9100	68.5	100	586	4.4	100	180	406	8514	64.1	100	4154	4360

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. The percentages in these columns show the share of each fiber in the specified end use each year. They add horizontally to the 100% shown in each of the Grand Total columns.

b. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add vertically to the 100% shown under Total End Use Consumption.

Continued From Previous Page

MAN-MADE FIBERS: As will be seen, there is relatively good correlation between End Use Consumption and Available Supply.

The fluctuations of producers' domestic shipments, as well as imports, from year to year are significant. In years when there is a large increase in domestic shipments plus imports of fiber (Available Supply), it is probable that some of the increase went into mill and manufactures' inventories rather than directly into end uses. Both warehouse inventories of yarn and staple and goods-in-process inventories would be involved. For example, it is likely that some of the large increase in the Available Supply between 1984-1985 was absorbed in inventories at various stages of the production process. In a period of slower activity, mills and manufactures reduce their warehouse inventories and work-in-process to reflect the lower level of activity.

Continued On Page 202

TABLE 3:
END USE CONSUMPTION INCLUDING SEMIMANUFACTURED IMPORTS
MILLION POUNDS

	MAN-MADE FIBERS								COTTON			WOOL					
	MILL CONSUMPTION																
	CELLULOSIC			NONCELLULOSIC													
YEAR	YARN	STAPLE [b]	TOTAL	YARN	STAPLE [b]	TOTAL	IMPORTS [c]	TOTAL	MILL CONS. [a]	IMPORTS [d]	TOTAL	MILL CONS. [a]	REPRO-CESSED & REUSED [e]	COTTON SYSTEM [e]	IMPORTS [d]	TOTAL	AVAIL-ABLE SUPPLY
1983	241.8	356.8	598.6	3433.7	3962.2	7395.9	196.0	8190.5	2795.7	380.7	3176.4	162.5	8.1	3.3	36.5	210.4	11577.3
1984	228.3	359.6	587.9	3398.6	3803.0	7201.6	242.4	8031.9	2668.2	505.4	3173.7	163.2	7.6	5.5	55.6	231.9	11437.5
1985	201.0	344.6	545.6	3663.8	3826.1	7489.9	295.2	8330.7	2796.0	493.5	3289.5	134.7	5.3	4.2	50.9	195.5	11815.3
1986	209.1	399.2	608.3	3747.3	4098.3	7845.6	341.3	8795.2	3301.7	638.8	3940.5	164.5	9.5	4.1	39.6	217.7	12953.4
1987	179.6	406.0	585.6	3927.1	4331.2	8258.3	303.6	9147.5	3742.9	784.4	4527.3	167.6	7.9	6.9	44.1	226.5	13901.3

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. Mill Consumption is taken from page 74 of the April 1988 ***Textile Organon***, plus subsequent revisions.

b. Man-made staple includes waste.

c. Imports are taken from page 202 of this issue.

d. Imports of Cotton and Wool are taken from page 180 of the August 1988 ***Textile Organon*** issue.

e. These volumes of reprocessed and reused wool, as well as wool used on the cotton spinning system are not included in the mill consumption series for wool. However, they are considered here as part of the available supply of wool as shown in the table below.

TABLE 4:
END USE VERSUS AVAILABLE SUPPLY - COMPARISON OF TABLE 2 WITH TABLE 3
MILLION POUNDS & *PERCENT*

	1983			1984			1985			1986			1987		
	AVAIL-ABLE [a]	END USE [b]	% [c]	AVAIL-ABLE [a]	END USE [b]	% [c]	AVAIL-ABLE [a]	END USE [b]	% [c]	AVAIL-ABLE [a]	END USE [b]	% [c]	AVAIL-ABLE [a]	END USE [b]	% [c]
COTTON	3177	2933	*92.3*	3174	3056	*96.3*	3290	3176	*96.5*	3940	3509	*89.1*	4527	4086	*90.3*
WOOL	210	204	*97.1*	232	231	*99.6*	195	194	*99.5*	218	216	*99.1*	227	227	*100.0*
TOTAL COTTON & WOOL	**3387**	**3137**	***92.6***	**3406**	**3287**	***96.5***	**3485**	**3370**	***96.7***	**4158**	**3725**	***89.6***	**4754**	**4313**	***90.7***
CELLULOSIC - YARN [d]	242	216	*89.3*	228	219	*96.1*	201	198	*98.5*	209	207	*99.0*	180	180	*100.0*
- STAPLE [e]	360	360	*100.0*	360	358	*99.4*	345	344	*99.7*	399	399	*100.0*	406	406	*100.0*
NONCELL- YARN [d]	3591	3535	*98.4*	3595	3595	*100.0*	3914	3823	*97.7*	4024	4015	*99.8*	4192	4154	*99.1*
- STAPLE [e]	3997	3972	*99.4*	3848	3839	*99.8*	3870	3803	*98.3*	4163	4154	*99.8*	4369	4360	*99.8*
TOTAL MAN-MADE FIBER	**8190**	**8083**	***98.7***	**8031**	**8011**	***99.8***	**8330**	**8168**	***98.1***	**8795**	**8775**	***99.8***	**9147**	**9100**	***99.5***
TOTAL FIBERS	**11577**	**11220**	***96.9***	**11437**	**11298**	***98.8***	**11815**	**11538**	***97.7***	**12953**	**12500**	***96.5***	**13901**	**13413**	***96.5***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

a. Mill consumption plus the imports of semimanufactured products - from Table 3 above.

b. End use from the summary table on page 200.

c. End use as a percentage of Available.

d. Includes monofilaments.

e. Includes tow, fiberfill and waste.

TABLE 5:
MAN-MADE FIBER & SEMIMANUFACTURED IMPORTS
MILLION POUNDS

	1983	1984	1985	1986	1987
CELLULOSIC FIBERS					
YARN	8.7	10.0	13.9	17.0	12.8
STAPLE	13.5	17.0	12.3	17.4	13.8
WASTE	0.3	0.5	0.5	0.1	0.1
SUBTOTAL ABOVE	**22.5**	**27.5**	**26.7**	**34.5**	**26.7**
NONCELLULOSIC FIBERS					
YARN - SINGLES					
NYLON - TEXTURED	5.1	18.0	32.4	36.7	28.8
- OTHER	14.8	30.2	18.4	22.5	22.8
POLYESTER - TEXTURED	2.2	10.8	16.6	14.6	15.6
- OTHER	13.6	15.7	16.7	22.5	19.4
OTHER - TEXTURED	7.7	8.9	14.7	20.5	24.1
- OTHER	2.7	2.5	2.5	5.1	6.8
MONOFILAMENTS	1.7	2.9	2.1	2.7	3.8
STRIPS, OVER $1/LB	0.6	1.0	1.2	1.5	2.6
SUBTOTAL ABOVE	**48.4**	**90.0**	**104.6**	**126.1**	**123.9**
STAPLE[a] - NYLON	46.8	61.4	68.1	90.5	71.2
- POLYESTER	23.6	30.0	31.8	43.1	73.9
- ACRYLIC	20.3	20.4	25.1	30.5	28.7
- OLEFIN	1.1	2.2	5.7	1.9	0.5
- OTHER	9.7	17.1	28.7	16.8	14.7
SUBTOTAL ABOVE	**101.5**	**131.1**	**159.4**	**182.8**	**189.0**
WASTE, NOT ADVANCED - NYLON	26.8	31.2	27.2	22.4	26.9
- POLYESTER	13.0	8.0	7.1	6.3	9.2
- ACRYLIC	0.3	0.3	0.3	0.3	0.3
- OTHER	2.7	4.0	2.1	8.4	4.7
NOILS & GARNETTED FIBERS	0.2	0.4	0.2	0.2	0.2
OTHER WASTE, ADVANCED	3.1	6.7	3.8	2.7	5.7
SUBTOTAL ABOVE	**46.1**	**50.6**	**40.7**	**40.3**	**47.0**
TOTAL FIBER ABOVE[b]	**218.5**	**299.2**	**331.4**	**383.7**	**386.6**
SEMIMANUFACTURES					
SLIVER, TOPS & ROVING	4.9	4.7	2.1	3.4	5.8
YARNS, THROWN OR PLIED	10.7	15.4	23.7	23.6	13.7
SPUN YARNS	39.0	46.3	45.4	64.6	63.5
SEWING THREAD & HANDWORK YARN	3.4	5.7	9.7	4.8	8.9
WOVEN FABRICS	123.2	154.9	186.2	207.2	182.5
NARROW FABRICS	12.7	12.4	18.4	25.3	14.6
KNIT FABRIC	2.2	3.0	9.7	12.4	14.6
SUBTOTAL ABOVE	**196.1**	**242.4**	**295.2**	**341.3**	**303.6**
GLASS FIBER	20.0	23.1	34.7	24.4	29.5
TOTAL SEMIMANUFACTURES ABOVE[c]	**216.1**	**265.5**	**329.9**	**365.7**	**333.1**
GRAND TOTAL ABOVE	**434.6**	**564.7**	**661.3**	**749.4**	**719.7**

[a] Includes grouped filaments.

[b] **SOURCE:** U.S. Bureau of the Census.

[c] **SOURCE:** U.S. Department of Agriculture, *Cotton and Wool Outlook Situation.*

For imports of fiber, the data are taken from the monthly summaries in each ***Textile Organon.*** A listing of the commodity numbers used may be found on page 214 of this issue under the monthly import table.

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UNIT PRODUCTION VERSUS FIBER CONSUMED

This survey shows the quantity of raw fiber which had to be put into process in order to manufacture end products. No direct comparison can be, or should be, made between the quantities of the fibers consumed, as recorded in the survey, and the finished or "shelf" weight of those end products by fiber. Comparison should be avoided because:

1. The variation in the weight per square yard of fabric made of the different fibers for the same end use. According to recent data collected by the U.S. Census Bureau, cotton fabrics averaged 7.0 square yards per pound and wool 0.6 square yards per pound. But for man-made fiber, 100% filament yarn fabrics averaged 4.4 square yards per pound and spun yarn fabrics averaged 3.3 square yards per pound.

2. From these data, it is apparent that the "covering power" of fabrics made from the various fibers varies a great deal. Hence, a simple comparison of quantities of fibers consumed would be misleading both because of the differences in fibers concerning covering power and the difference in typical fabric weights of products made of the various fibers, as described.

Continued On Page 206

TABLE 6:
EXPORTS OF SEMIMANUFACTURED PRODUCTS [a]

MILLION POUNDS

		MAN-MADE FIBERS [b]						
			CELLULOSIC		NONCELLULOSIC			
END USE & YEAR	TOTAL FIBER	TOTAL	YARN	STAPLE	YARN	STAPLE	COTTON	WOOL
TOTAL EXPORTS OF SEMIMANUFACTURED PRODUCTS								
1983	r282.2	r183.9	11.0	6.0	70.0	r96.9	93.0	5.3
1984	r280.4	190.9	9.4	6.1	73.0	102.4	r85.0	4.5
1985	328.5	209.7	9.6	6.6	75.8	117.7	108.1	10.7
1986	383.7	232.1	11.0	7.6	88.0	125.5	143.0	8.6
1987	405.8	263.8	12.5	8.6	100.3	142.4	126.9	15.1
80 YARN, THREAD, ETC[c]								
1983	r70.5	r35.3	e	2.0	e	r33.3	31.2	4.0
1984	r61.4	38.3	e	2.6	e	35.7	r20.2	2.9
1985	86.0	51.1	e	2.7	e	48.4	25.8	9.1
1986	70.8	47.9	e	2.5	e	45.4	16.6	6.3
1987	86.2	53.9	e	2.8	e	51.1	19.6	12.7
81 WOVEN & KNIT FABRIC[c]								
1983	207.7	148.6	11.0	4.0	70.0	63.6	61.8	1.3
1984	219.0	152.6	9.4	3.5	73.0	66.7	64.8	1.6
1985	242.5	158.6	9.6	3.9	75.8	69.3	82.3	1.6
1986	312.9	184.2	11.0	5.1	88.0	80.1	126.4	2.3
1987	319.6	209.9	12.5	5.8	100.3	91.3	107.3	2.4

SOURCE: U.S. Department of Agriculture, *Cotton & Wool Outlook Situation.*

This is a non-add section since the volumes are included in Tables 2 and 7 through 10.

NOTES FOR EXPORT ITEMS ABOVE

For all lettered and general footnotes to this table, see page 210.

These exports do not duplicate the end use poundages that are reported in Items 1 through 79. Apparel items are not tabulated here because they already have been counted as the fabric was cut, i.e., they are counted only once regardless of the subsequent place of sale or consumer use.

Similarly, fabrics for blankets, sheets, upholstery & draperies, carpets, etc., are excluded since they are measured at the mill level as an end use.

The exports of man-made fiber filament yarn+monofilaments, staple, tow, etc., are not tabulated in this section because these products are not a factor in U.S. mill consumption.

On the other hand, the two export items are recorded because, while they were processed or fabricated in U.S. mills, they were exported before reaching the point at which end use is measured.

80. YARN, THREAD, ETC:
Consists of sliver, tops & roving; plied and spun yarn; sewing thread and handwork yarns; cotton twine and cordage; and advanced wool.

81. WOVEN & KNIT FABRIC:
Consists of broad & narrow woven fabrics and knit cloth, except that cotton also includes table damask and tire cord & fabric.

TABLE 7:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS [b]					COTTON	WOOL
		TOTAL	CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
TOTAL APPAREL								
1983	4565.3	2766.3	153.9	73.9	1173.3	1365.2	1646.0	153.0
1984	4389.2	2499.9	153.5	86.1	1116.6	1143.7	1718.6	170.7
1985	r4282.8	2374.7	140.7	66.9	1086.5	1080.6	r1766.4	141.7
1986	r4756.9	r2637.3	150.8	98.9	1039.7	r1347.9	r1961.0	r158.6
1987	5392.2	2795.5	123.4	112.8	1138.0	1421.6	2440.0	156.7
40 SHEER HOSIERY (W)*								
1983	80.7	77.2	- -	- -	77.2	- -	3.5	- -
1984	86.0	82.6	- -	- -	82.6	- -	3.4	- -
1985	86.4	83.0	- -	- -	83.0	- -	3.4	- -
1986	90.7	87.2	- -	- -	87.2	- -	3.5	- -
1987	95.0	91.3	- -	- -	91.3	- -	3.7	- -
19,41 ANKLETS & SOCKS (MW)*								
1983	195.2	152.6	- -	0.5	65.0	87.1	39.6	3.0
1984	190.5	131.5	- -	0.5	59.5	71.5	55.6	3.4
1985	r189.3	122.7	- -	0.4	56.9	65.4	r63.9	2.7
1986	r206.0	127.7	c	0.4	57.3	70.0	r74.5	3.8
1987	199.8	112.8	c	0.4	59.0	53.4	83.2	3.8
8,29 SWEATERS & RELATED ACCESSORIES								
1983	142.9	104.8	- -	1.2	0.4	103.2	20.1	18.0
1984	167.4	113.7	- -	1.2	0.5	112.0	33.7	20.0
1985	r186.9	110.3	- -	1.2	0.6	108.5	r59.8	16.8
1986	r263.3	r156.8	- -	1.5	0.4	r154.9	r87.5	19.0
1987	248.8	144.8	- -	0.3	0.3	144.2	84.7	19.3
57 CRAFT & HANDWORK YARNS*								
1983	106.1	97.4	- -	0.1	- -	97.3	4.0	4.7
1984	90.9	82.1	- -	0.8	- -	81.3	3.5	5.3
1985	r92.1	85.1	- -	0.1	0.3	84.7	r2.7	4.3
1986	r90.9	82.4	1.2	0.2	c	81.0	r4.5	4.0
1987	80.8	72.0	0.9	0.2	c	70.9	4.8	4.0
16-18 UNDERWEAR & NIGHTWEAR (M)*								
1983	245.7	96.8	- -	- -	14.5	82.3	147.9	1.0
1984	268.9	90.5	- -	- -	9.9	80.6	177.4	1.0
1985	264.0	83.6	- -	- -	8.0	75.6	179.6	0.8
1986	r313.3	r108.8	- -	- -	r12.5	96.3	r204.3	0.2
1987	316.3	100.0	- -	- -	10.5	89.5	216.1	0.2
35-39 UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS (W)*								
1983	196.6	153.0	12.5	- -	105.0	35.5	42.6	1.0
1984	178.0	130.7	8.6	- -	99.9	22.2	46.3	1.0
1985	r189.9	136.7	6.8	- -	105.2	24.7	r52.4	0.8
1986	r190.0	128.9	8.0	- -	94.8	26.1	r60.9	0.2
1987	191.1	123.7	1.9	- -	92.0	29.8	67.2	0.2
10,31 ROBES & LOUNGEWEAR (MW)*								
1983	92.5	74.8	39.0	- -	22.9	12.9	15.1	2.6
1984	99.6	79.6	41.5	- -	23.7	14.4	17.1	2.9
1985	r84.9	70.6	37.2	- -	20.3	13.1	r12.0	2.3
1986	r91.0	73.8	31.2	- -	23.5	19.1	r14.9	2.3
1987	80.7	61.7	19.7	- -	22.9	19.1	16.7	2.3

TABLE 7:
FIBER CONSUMED IN U.S. APPAREL PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a] (CONTINUED)
MILLION POUNDS

		MAN-MADE FIBERS [b]						
			CELLULOSIC		NONCELLULOSIC			
END USE & YEAR	TOTAL FIBER	TOTAL	YARN	STAPLE	YARN	STAPLE	COTTON	WOOL
54a HIGH PILE FABRICS								
1983	73.8	73.8	--	0.6	15.5	57.7	--	--
1984	61.4	61.4	--	0.3	9.7	51.4	--	--
1985	57.1	57.1	--	--	6.4	50.7	--	--
1986	59.0	59.0	--	--	10.6	48.4	--	--
1987	67.9	67.9	--	2.0	15.4	50.5	--	--
54b FABRICS FOR LINING*								
1983	139.2	99.7	66.7	1.0	24.0	8.0	36.6	2.9
1984	153.7	109.6	79.8	1.9	21.7	6.2	40.9	3.2
1985	r146.2	103.5	74.2	1.5	17.6	10.2	r40.0	2.7
1986	r178.4	133.9	98.3	3.6	18.5	13.5	r41.7	2.8
1987	184.0	136.1	90.4	5.8	23.6	16.3	45.0	2.9
43 APPAREL LACE (W)*								
1983	8.4	6.9	--	--	6.9	--	1.5	--
1984	5.5	4.0	--	--	4.0	--	1.5	--
1985	6.1	4.6	--	--	4.6	--	1.5	--
1986	4.3	2.8	--	--	2.8	--	1.5	--
1987	3.9	2.4	--	--	2.4	--	1.5	--
56a NARROW FABRICS*								
1983	49.7	24.7	1.7	--	20.8	2.2	25.0	--
1984	47.9	21.8	0.7	--	19.0	2.1	26.1	--
1985	46.9	23.3	1.5	--	20.1	1.7	23.6	--
1986	59.9	35.1	2.1	--	30.1	2.9	24.8	--
1987	77.7	51.6	2.2	--	46.4	3.0	26.1	--
TOPWEIGHT FABRICS*								
1983	1143.2	692.2	24.5	40.7	214.5	412.5	446.4	4.6
1984	1032.5	547.6	18.4	45.7	178.0	305.5	479.7	5.2
1985	r940.4	496.2	16.5	35.7	173.0	271.0	r440.1	4.1
1986	r1100.4	557.1	7.5	52.1	158.5	339.0	r539.7	3.6
1987	1466.0	700.1	5.6	49.3	184.3	460.9	762.2	3.7
BOTTOMWEIGHT FABRICS*								
1983	2048.5	1105.4	9.5	29.8	603.6	462.5	827.9	115.2
1984	1959.3	1037.8	4.5	35.7	605.1	392.5	792.8	128.7
1985	r1946.8	990.8	4.5	27.8	587.5	371.0	r848.8	107.2
1986	r2063.9	1075.2	2.5	40.6	540.1	492.0	r866.0	r122.7
1987	2335.2	1122.3	2.4	53.3	586.6	480.0	1092.6	120.3
OTHER APPAREL & ACCESSORIES (MW)*								
1983	42.8	7.0	--	--	3.0	4.0	35.8	c
1984	47.6	7.0	--	--	3.0	4.0	40.6	c
1985	r45.8	7.2	--	0.2	3.0	4.0	r38.6	c
1986	r45.8	8.6	--	0.5	3.4	4.7	r37.2	c
1987	45.0	8.8	--	1.5	3.3	4.0	36.2	c

Most of the above data are taken from the Textile Economics Bureau's publication ***Man-Made Fiber Producers' Handbook.***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

For all lettered and general footnotes to this table and the Home Furnishings, Floor Covering and Industrial & Other Consumer-Type Products tables, please see page 210.

TABLE 8:
FIBER CONSUMED IN U.S. HOME FURNISHINGS PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS [a]

MILLION POUNDS

		MAN-MADE FIBERS [b]						
			CELLULOSIC		NONCELLULOSIC			
END USE & YEAR	TOTAL FIBER	TOTAL	YARN	STAPLE	YARN	STAPLE	COTTON	WOOL
TOTAL HOME FURNISHINGS								
1983	1774.7	957.8	27.7	106.3	260.2	563.6	797.8	19.1
1984	1849.7	965.4	26.5	106.1	258.6	574.2	863.0	21.3
1985	r1895.4	966.4	18.5	107.1	293.4	547.4	r911.3	17.7
1986	r1937.5	900.0	16.8	113.9	244.9	524.4	r1019.9	17.6
1987	2018.9	872.3	21.8	117.2	239.2	494.1	1128.6-	18.0
45 BEDSREADS & QUILTS*								
1983	140.8	91.4	6.0	6.2	16.0	63.2	49.4	- -
1984	134.1	81.2	4.0	6.0	15.2	56.0	52.9	- -
1985	r134.8	77.2	c	6.0	17.2	54.0	r57.6	- -
1986	r142.6	80.0	0.2	6.3	19.1	54.6	r62.6	- -
1987	167.0	93.8	- -	3.3	20.5	70.0	73.2	- -
46 BLANKETS & BLANKETING*								
1983	70.3	57.2	- -	c	1.0	56.2	8.6	4.5
1984	66.8	50,9	- -	0.2	1.0	49.7	10.9	5.0
1985	r74.8	54.6	- -	0.2	- -	54.4	r16.1	4.1
1986	r75.7	51.1	- -	0.2	- -	50.9	r20.3	4.3
1987	78.4	51.8	- -	0.2	- -	51.6	22.5	4.1
47 SHEETS & OTHER BEDDING*								
1983	511.7	299.3	0.5	11.6	79.6	207.6	212.4	- -
1984	516.3	300.0	0.5	15.0	75.7	208.8	216.3	- -
1985	r493.4	269.3	1.5	12.5	77.7	177.6	r224.1	- -
1986	r504.4	254.8	1.9	12.7	70.1	170.1	r249.6	- -
1987	494.8	235.2	1.5	7.2	59.7	166.8	259.6	- -
48 TOWELS & TOWELING*								
1983	379.8	36.0	- -	0.3	1.7	34.0	343.8	- -
1984	405.9	30.3	- -	0.7	0.6	29.0	375.6	- -
1985	r414.5	22.3	- -	0.9	0.2	21.2	r392.2	- -
1986	r472.9	31.9	- -	0.5	0.2	31.2	r441.0	- -
1987	518.1	34.2	- -	0.1	0.5	33.6	483.9	- -
56b NARROW FABRICS*								
1983	5.8	2.1	- -	- -	0.3	1.8	3.7	- -
1984	4.3	0.5	- -	- -	c	0.5	3.8	- -
1985	4.8	1.2	- -	- -	1.2	- -	3.6	- -
1986	4.1	0.3	- -	- -	0.2	0.1	3.8	- -
1987	6.2	2.2	- -	- -	1.7	0.5	4.0	- -

Continued From Page 202

LIMITATIONS OF THE SURVEY RESULTS

The statistical results of this end use survey should be considered as approximations. These data are best used as a means of comparison to measure the long-term trends among the fibers.

Please note that the data are given in millions of pounds and include one decimal place to show hundred thousand pounds. This device is employed not to show great accuracy, but rather to take into account some small quantities of fibers in such end uses as Apparel Lace and still allow the compilation to add arithmetically.

TABLE 8:
FIBER CONSUMED IN U.S. HOME FURNISHINGS PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE EXCLUDING FLOOR COVERINGS [a] (CONTINUED)

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS [b]					COTTON	WOOL
		TOTAL	CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
51 CURTAINS & DRAPERY *								
1983	226.9	163.2	14.0	47.8	44.8	56.6	63.7	- -
1984	247.4	179.7	13.4	44.3	47.1	74.9	67.7	- -
1985	242.4	172.5	14.4	44.4	43.7	70.0	69.9	- -
1986	272.6	190.2	14.3	48.9	45.2	81.8	82.4	- -
1987	263.9	163.1	19.7	52.2	42.5	48.7	100.8	- -
52 UPHOLSTERY*								
1983	366.8	261.3	4.9	39.5	100.5	116.4	90.9	14.6
1984	374.3	248.3	5.9	38.9	83.3	120.2	109.7	16.3
1985	400.8	261.3	0.4	36.7	104.6	119.6	125.9	13.6
1986	381.8	229.3	0.4	44.3	92.0	92.6	139.2	13.3
1987	469.7	290.5	0.1	53.2	114.3	122.9	165.3	13.9
OTHER HOME FURNISHINGS*								
1983	72.6	47.3	2.3	0.9	16.3	27.8	25.3	- -
1984	100.6	74.5	2.7	1.0	35.7	35.1	26.1	- -
1985	r129.9	108.0	2.2	6.4	48.8	50.6	r21.9	- -
1986	r83.2	62.2	- -	1.0	18.1	43.1	r21.0	- -
1987	20.8	1.5	0.5	1.0	- -	- -	19.3	- -

TABLE 9:
FIBER CONSUMED IN U.S. FLOOR COVERINGS PRODUCTION INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS [b]					COTTON	WOOL
		TOTAL	CELLULOSIC		NONCELLULOSIC			
			YARN	STAPLE	YARN	STAPLE		
50 TOTAL CARPETS & RUGS*								
1983	2206.8	2179.9	- -	0.6	1064.6	1114.7	14.0	12.9
1984	2287.1	2258.4	- -	0.7	1162.1	1095.6	14.3	14.4
1985	r2564.7	r2538.0	- -	1.3	1398.5	1138.2	r14.8	11.9
1986	r2800.2	2767.0	- -	1.5	1535.2	1230.3	r15.8	r17.4
1987	2974.5	2933.6	- -	0.8	1613.7	1319.1	17.4	23.5
50a FACE YARNS*								
1983	1960.9	1941.1	- -	0.6	865.8	1074.7	6.9	12.9
1984	1976.6	1954.5	- -	0.7	934.3	1019.5	7.7	14.4
1985	r2134.3	2112.2	- -	1.3	1043.9	1067.0	r10.2	11.9
1986	r2306.4	2277.9	- -	1.5	1131.1	1145.3	r11.1	r17.4
1987	2465.6	2429.3	- -	0.8	1188.4	1240.1	12.8	23.5
50b BACKING*								
1983	245.9	238.8	- -	- -	198.8	40.0	7.1	- -
1984	310.5	303.9	- -	- -	227.8	76.1	6.6	- -
1985	r430.4	425.8	- -	- -	354.6	71.2	r4.6	- -
1986	r493.8	489.1	- -	- -	404.1	85.0	r4.7	- -
1987	508.9	504.3	- -	- -	425.3	79.0	4.6	- -

FOOTNOTES FOR BOTH TABLE 8 & TABLE 9:
Most of the above data are taken from the Textile Economics Bureau's publication ***Man-Made Fiber Producers' Handbook.***
NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.
For all lettered and general footnotes to this table and the Apparel and Industrial & Other Consumer-Type Products tables, please see page 210.

TABLE 10:
FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a]

MILLION POUNDS

		MAN-MADE FIBERS [b]						
			CELLULOSIC		NONCELLULOSIC			
END USE & YEAR	TOTAL FIBER	TOTAL	YARN	STAPLE	YARN	STAPLE	COTTON	WOOL
TOTAL INDUSTRIAL & OTHER CONSUMER								
1983	2434.2	2038.2	22.5	173.3	987.1	855.3	382.0	14.0
1984	2505.3	2108.2	27.9	159.4	998.2	922.7	376.1	21.0
1985	r2468.3	2080.2	30.6	161.9	968.6	919.1	r375.0	13.1
1986	r2620.5	r2237.7	28.1	175.9	r1107.0	926.7	r369.4	r13.4
1987	2621.1	2234.5	22.0	166.6	1063.1	982.8	373.2	13.4
65 TIRES*								
1983	335.8	331.8	11.0	--	320.8	--	4.0	--
1984	368.5	364.8	14.0	--	350.8	--	3.7	--
- 1985	314.7	311.4	9.8	--	301.6	--	3.3	--
1986	r300.1	297.6	9.0	--	288.6	--	r2.5	--
1987	316.6	313.9	8.1	--	305.8	--	2.7	--
66 HOSE*								
1983	27.5	24.8	6.5	--	15.7	2.6	2.7	--
1984	33.0	30.1	8.0	--	19.5	2.6	2.9	--
1985	29.3	27.3	11.8	--	15.1	0.4	2.0	--
1986	r29.3	27.6	11.0	--	15.9	0.7	r1.7	--
1987	29.2	27.5	9.4	--	17.2	0.9	1.7	--
67 BELTING*								
1983	53.6	44.5	1.9	--	28.0	14.6	9.1	--
1984	60.1	50.7	3.0	--	31.4	16.3	9.4	--
1985	43.5	32.7	2.5	--	24.3	5.9	10.8	--
1986	r41.7	31.1	3.1	--	23.3	4.7	r10.6	--
1987	47.5	37.0	2.5	--	26.6	7.9	10.5	--
61 MEDICAL, SURGICAL & SANITARY*								
1983	339.3	250.3	--	114.3	46.5	89.5	89.0	--
1984	328.6	241.6	--	116.1	54.0	71.5	87.0	--
1985	r299.4	219.3	--	105.9	58.7	54.7	r80.1	--
1986	r351.4	269.8	--	123.4	94.4	52.0	r81.6	--
1987	332.2	253.9	--	75.5	102.4	76.0	78.3	--
79b UNALLOCATED NONWOVENS*								
1983	136.6	136.6	--	6.9	--	129.7	--	--
1984	189.2	189.2	--	3.0	--	186.2	--	--
1985	224.4	224.4	--	12.9	--	211.5	--	--
1986	257.5	257.5	--	14.9	--	242.6	--	--
1987	339.3	339.3	--	50.5	--	288.8	--	--
79a FIBERFILL, STUFFING & FLOCK*								
1983	331.7	331.7	--	7.4	--	324.3	--	--
1984	321.4	321.4	--	4.1	--	317.3	--	--
1985	354.9	354.9	--	6.5	--	348.4	--	--
1986	368.7	368.7	--	3.1	--	365.6	--	--
1987	403.8	403.8	--	0.4	--	403.4	--	--
70 FELTS*								
1983	27.0	12.7	--	3.5	3.9	5.3	1.3	13.0
1984	34.7	13.5	--	3.5	4.0	6.0	1.2	20.0
1985	23.7	10.6	--	2.0	3.9	4.7	1.0	12.1
1986	r25.0	11.7	--	2.2	4.3	5.2	1.0	r12.3
1987	20.4	7.1	--	3.2	3.9	8.1	1.0	12.3
71 FILTRATION*								
1983	34.2	29.0	--	1.3	3.8	23.9	5.2	--
1984	34.3	29.5	--	3.3	4.8	21.4	4.8	--
1985	r37.4	32.8	--	3.2	5.2	24.4	r4.6	--
1986	r37.2	32.7	--	4.6	4.1	24.0	r4.5	--
1987	32.7	28.3	--	8.3	3.5	16.5	4.4	--

For all lettered and general footnotes to this table and the Apparel, Home Furnishings and Floor Covering tables, please see page 210.

TABLE 10:
FIBER CONSUMED IN U.S. INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS INCLUDING FIBER, YARN, FABRIC IMPORTS & WASTE [a](CONTINUED)

MILLION POUNDS

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS [b]					COTTON	WOOL
			CELLULOSIC		NONCELLULOSIC			
		TOTAL	YARN	STAPLE	YARN	STAPLE		
73 ROPE, CORDAGE, FISHLINE, ETC*								
1983	170.0	152.2	0.8	0.6	138.3	12.5	17.8	- -
1984	186.5	170.9	1.0	0.3	157.1	12.5	15.6	- -
1985	184.3	168.9	0.6	0.4	157.3	10.6	15.4	- -
1986	r189.0	175.1	0.4	1.7	155.7	17.3	r13.9	- -
1987	181.9	167.9	0.9	0.5	158.0	8.5	14.0	- -
72 SEWING THREAD*								
1983	133.8	76.3	c	7.6	50.0	18.7	57.5	- -
1984	123.6	72.2	c	5.2	51.1	15.9	51.4	- -
1985	r126.9	84.1	0.4	6.7	60.4	17.0	r42.8	- -
1986	r126.6	r84.2	0.4	3.9	r63.5	16.8	r42.4	- -
1987	145.0	94.5	0.4	4.1	69.4	21.0	50.5	- -
76 PAPER & TAPE REINFORCING*								
1983	5.7	2.3	c	0.4	0.6	1.3	3.4	- -
1984	11.1	7.4	0.3	0.4	2.7	4.0	3.7	- -
1985	6.8	3.9	1.8	0.4	1.7	- -	2.9	- -
1986	r5.4	3.4	0.9	0.1	2.4	c	r2.0	- -
1987	6.7	4.7	0.7	0.7	2.5	0.8	2.0	- -
69,77 ELECTRICAL & REINFORCED PLASTICS*								
1983	29.9	4.9	- -	- -	4.9	c	25.0	- -
1984	30.2	5.2	0.2	- -	5.0	c	25.0	- -
1985	31.3	6.3	0.1	- -	6.2	- -	25.0	- -
1986	29.1	4.1	c	- -	3.9	0.2	25.0	- -
1987	30.4	5.4	c	0.4	4.2	0.8	25.0	- -
75 COATED & PROTECTIVE FABRICS*								
1983	228.1	177.9	- -	10.6	46.2	121.1	50.2	- -
1984	251.2	194.2	- -	10.5	55.0	128.7	57.0	- -
1985	r193.0	135.6	- -	10.2	43.9	81.5	r57.4	- -
1986	r192.4	136.2	- -	11.6	47.0	77.6	r56.2	- -
1987	184.4	126.0	- -	3.8	57.2	65.0	58.4	- -
63-64 TRANSPORATION FABRIC*								
1983	63.5	53.5	- -	0.6	32.3	20.6	10.0	- -
1984	73.1	61.4	- -	1.1	36.5	23.8	11.7	- -
1985	85.4	74.2	- -	0.8	53.9	19.5	11.2	- -
1986	r83.0	72.4	- -	1.0	50.5	20.9	r10.6	- -
1987	96.6	86.9	- -	0.8	53.5	32.6	9.7	- -
56c NARROW FABRICS*								
1983	100.8	88.8	1.0	- -	86.6	1.2	12.0	- -
1984	110.9	98.1	0.9	- -	96.9	0.3	12.8	- -
1985	105.5	93.0	- -	- -	93.0	c	12.5	- -
1986	118.4	105.3	- -	- -	105.3	- -	13.1	- -
1987	117.8	104.1	- -	- -	104.1	- -	13.7	- -
74 BAGS & BAGGING*								
1983	75.3	69.5	- -	- -	67.5	2.0	5.8	- -
1984	46.6	41.3	- -	- -	40.5	0.8	5.3	- -
1985	60.2	55.1	- -	- -	54.5	0.6	5.1	- -
1986	58.0	53.0	- -	- -	52.2	0.8	5.0	- -
1987	62.4	5[illegible]6	- -	0.3	54.8	2.5	4.8	- -
MISCELLANEOUS INDUSTRIAL & CONSUMER-TYPE PRODUCTS*								
1983	341.4	251.4	1.3	20.1	142.0	88.0	89.0	1.0
1984	302.3	216.7	0.5	11.9	88.9	115.4	84.6	1.0
1985	r347.2	245.3	3.6	12.9	88.9	139.9	r100.9	1.0
1986	r407.3	306.9	3.3	9.4	195.9	98.3	r99.3	1.1
1987	265.7	168.1	- -	18.1	100.0	50.0	96.5	1.1

Most of the above data are taken from the Textile Economics Bureau's publication ***Man-Made Fiber Producers' Handbook.***

NOTE: Data on Glass Fiber are no longer available due to company disclosure. The series including Glass Fiber was last published in the September 1985 issue.

GENERAL NOTES FOR END USE TABLES
ON PAGES 203-209

Units are in million pounds.

-- Little, or none, of the fiber is used.

* When an asterisk appears, there is a footnote at the end of the table.

a. This letter in the title of each table refers the reader to these notes.

b. Man-made fiber end use in these tables is divided between Cellulosic (rayon+acetate fibers) and Noncellulosic (nylon, polyester, acrylic & olefin fiber). Yarn includes monofilaments and olefin "yarn" also includes film fiber and spunbonded polypropylene. Staple includes tow & fiberfill; see Item 79a, Fiberfill, Stuffing & Flock and its footnote on page 212. Certain waste quantities, which are tabulated with staple, are included; see text on page 199.

The noncellulosic fibers included in this survey, for one or more years, are the acrylic, modacrylic, nylon, olefin (polyethylene & polypropylene), polyester and vinyon fibers through 1986.

c. Less than 50,000 pounds, i.e., nominal.

d. The staple data are tabulated in the yarn column.

e. The yarn data are tabulated in the staple column.

r. This data shows a significant revision compared with the September 1987 ***Textile Organon*** data.

As described in the footnotes to Items 54a and 54b, apparel linings, pockets and such are tabulated in Items 54a and 54b and not with the applicable garments.

In the Apparel table, the sex and age classifications used are those of the U.S. Census Bureau. Thus **M** means Men's plus Boys' and **W** means all other persons, i.e., Women's, Misses', Juniors', Girls', Children's & Infants'.

NOTES FOR APPAREL ITEMS
PAGES 204-205

For all lettered and general footnotes to this table, see notes above.

40. **SHEER HOSIERY:**
Includes pantyhose, stockings, body stockings, leotards & tights, sheer knee-highs & anklets and support hose.

19,41. **ANKLETS & SOCKS:**
Include footsocks, anklets, half-hose, over-the-calf hosiery and nonsheer knee-highs for all ages and both sexes. Also includes infants' and children's waist-highs.

8,29. **SWEATERS (MW):**
Knitted sweater shirts, pullover, coat & cardigan types, both full-fashioned and cut and sewn. Also note Item 57.

57. **CRAFT & HANDWORK YARNS:**
All yarns for handwork, i.e., knitting, embroidery, crocheting, needlepoint, crewl and yarn kits for all uses. Does not include sewing thread (Item 72). Olefin yarn for macramé is in Miscellaneous Industrial.

16-18. **UNDERWEAR & NIGHTWEAR (M):**
Undershirts, shorts & briefs, pajamas, nightshirts, sleepcoats, thermal underwear, etc.

35-39. **UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS:**
Underwear and nightwear component includes full and halfslips, panties, petticoats, pettipants, camisoles, vests, briefs and thermal underwear as well as nightgowns, pajamas, sleep coats, peignoirs, robes, negligees and bedjackets. Also includes bodywear and all children's and infants' underwear & nightwear. **Excludes** the trim, elastic webbing, apparel lace, braid or narrow fabric used in these products.

The bras and foundations include corsets, girdles, combinations and one-piece garments, garter belts, hose supporters, two-way stretch and surgical & maternity foundation garments.

10,31. **ROBES & LOUNGEWEAR (MW):**
Men's & boys' beach & bathrobes, dressing gowns and smoking jackets, and women's beach & bathrobes and house-breakfast & brunch coats and dressing gowns.

54a. **HIGH PILE FABRICS:**
Include all applications. End uses such as coatings, collar trims, linings, backings and paint rollers are included. Napped or brushed fabrics such as fleeces, velvets or corduroys are excluded.

54b. **FABRICS FOR LINING:**
All man-made fiber types except high pile fabrics (Item 54a), lining-type fabrics sold as retail piece goods and the lining components of shoes & slippers and luggage and handbags (Miscellaneous Other Consumer-Type). The apparel lining component of this series includes main linings, interlinings, zip-in linings (except pile), pocketings and bandings and waistbands as well as the acetate and nylon tricot for laminating. Cotton drapery linings are not included here but are in Item 52. Also not included are interlinings of haircloth, urethane and non-woven fabrics.

43. **APPAREL LACE:**
Nets and veilings.

56a. **NARROW FABRICS:** ELASTIC AND NONELASTIC TYPES.
The "narrow woven goods" made by slicing broad woven fabrics are not included. **NARROW FABRIC** quantities for home furnishings and industrial uses are shown in those sections.

RETAIL PIECE GOODS:
Are included in Topweight and Bottomweight Fabrics.

TOPWEIGHT FABRICS:
All shirts, blouses, lightweight dress and lightweight fashion fabrics. Fabrics generally weigh 5.0 ounces or less per square yard. Retail piece goods are included.

BOTTOMWEIGHT FABRICS:
Pants, jeans, sportswear, tailored clothing, coats and jackets, career apparel and heavier weight fashion fabrics. Fabrics generally weigh more than 5.0 ounces per square yard. Retail piece goods are included.

OTHER APPAREL:
Men's & women's work gloves and handkerchiefs. Man-made fiber used for knitted accessories such as scarves, mufflers, gloves, mittens, caps, etc., is in Items 8 & 29.

NOTES FOR HOME FURNISHING ITEMS

PAGES 206-207

For all lettered and general footnotes to this table, see page 210.

HOME FURNISHINGS:

Data cover the use of each item not only in homes, but also in offices, hotels, institutions, etc. For certain transportation uses, note Items 50a, 63 & 64.

None of the quantities tabulated include any cotton stuffing or filling materials in items such as furniture, pillows, mattresses, comforters & quilts, sleeping bags, seat padding, etc. For the man-made fibers, however, stuffing & fiberfill is tabulated in the Industrial section. Note text page 199 regarding the inclusion of certain man-made fiber waste quantities here. Certain felt quantities are in Item 70.

45. **BEDSPREADS:**

Tailored & throw spreads, both tufted & woven, as well as the backing. **QUILTS:** Comforters and their outer shell, quilted pads are in Item 47.

46. **BLANKETS & BLANKETING:**

Woven, knitted, needle-punched and flocked full-size and crib blankets and electric blanket shells, as well as the woven acetate or nylon filament yarn bindings thereof. Sizable quantities of rayon, acrylic, nylon & wool waste are included here.

47. **SHEETS:**

Pillowcases. **OTHER BEDDING:** Outside covers of quilted pads, mattress pads, mattresses & innersprings, civilian cots and sleeping bags. Mattress felts are in Item 70. The man-made staple quantities here are mainly polyester for sheets and rayon & polyester for bed ticking. The man-made filament is chiefly polyester for bed ticking.

48. **TOWELS & TOWELING:**

Woven hand, bath, dish towels, etc. Nonwoven towels, such as "Handi-wipes" and industrial wiping cloths, are in Item 61. The large cotton waste quantity used in these products is not included.

56b. **NARROW FABRICS:**

Only home furnishings applications. See the Apparel and Industrial sections for Narrow Fabrics in those applications.

51. **CURTAINS & DRAPERY:**

Lace and other types (principally woven) i.e., cafe, tiered & cottage, ruffled, shortie drapes and tailored. Also includes the backing & headers of drapery fabrics. The cotton data include cotton drapery linings. Shower curtains are in Other Home Furnishings.

52. **UPHOLSTERY:**

Furniture slipcovers and vinyl-coated cotton fabrics for upholstery. The olefin & saran webbing for outdoor furniture is included under Narrow Woven Industrial (Item 56c).

OTHER HOME FURNISHINGS:

Woven & lace napery, such as tablecloths & napkins, doilies, etc., as well as the cotton in window shades. For the man-made fibers, it includes insect screening & netting. Wall covering fabric is in Miscellaneous Industrial.

NOTES FOR FLOOR COVERING ITEMS

PAGE 207

For all lettered and general footnotes to this table, see page 210.

50. **CARPETS & RUGS FACE FIBER (TOTAL):**

Sum of 50a & 50b.

50a. **FACE YARNS:**

Tufted, woven, knitted and needle-punched types. Tufted includes broadloom & roll goods, transportation carpeting, scatter rugs, bath mats and "grass." Woven includes carpets such as Axminster, Velvet, Wilton, etc. Knit goods are mainly scatter rugs. Needle-punched are the indoor-outdoor carpets. Item 50a does not include braided, hooked or woven twisted paper carpets.

50b. **CARPET BACKING FIBERS:**

The Cellulosic Yarn is industrial rayon used for woven carpet chain warps. The Other Yarn is olefin (monofil+film fiber+spunbonded) and small quantities of nylon & polyester filament yarn. The Other Staple is olefin only. The substantial quantities of jute used as woven primary & secondary carpet backing, as well as the jute yarn used in the warp of woven carpets, are not tabulated in Item 50b. Nor does it include the quantities of wool, hair and jute used in carpet and rug pads and cushions.

NOTES FOR INDUSTRIAL & OTHER CONSUMER-TYPE ITEMS

PAGES 208-209

For all lettered and general footnotes to this table, see page 210.

56c. **NARROW FABRICS:**

Woven labels, industrial webbing, shoelaces, tapes (venetian blinds & industrial), transportation seat belts, auto windlace, channeling & trim, and outdoor furniture webs. These figures exclude transmission & conveyor belting (in Item 67); friction tape and the braided narrow fabric used in electrical applications (in Item 69); and gummed cotton tape (in Item 76).

61. **MEDICAL, SURGICAL & SANITARY:**

Bandages, gauzes, adhesive tapes & plasters, sanitary napkins & tampons, cotton diapers, rayon disposable diapers, surgical gowns and packs. Medical sutures are tabulated in Item 72. Surgical hosiery is in Items 19 & 40. Not included here is cotton waste & linters nor any nontextiles used for filling materials.

63 & 64. **TRANSPORTATION FABRIC:**

Auto seat upholstery & slipcovers, sidewall, headlining and sheeting. The cotton quantities include the knit and woven fabric used as the backing for vinyl sheeting. The item includes convertible auto tops & replacements thereof, as well as upholstery used in other kinds of transportation, such as airplanes, railroad & subway cars, buses, etc. it does not include seat padding, transportation rugs (in Item 50), window channeling (in Item 56c), flocking, tassels, trim, etc. The man-made fiber used for substrates for automotive fabric is included in Item 75.

65. TIRES:
All types, i.e., automobile, truck, tractor, off-road, bicycle, etc. The data include tire cord & tire cord fabric, chafer and other tire components, i.e., flipper fabric, breaker strips, bead wraps, etc.

The data include imports of tire yarn, cord & fabric and also cover any quantities subsequently exported in cord or fabric form.

The consumption of steel tire cord for the years 1983-1987 inclusive is estimated as follows: 219.2, 300.5, 317.6, 327.0 & 349.0. However, these quantities are **not included** in Item 65.

66. HOSE:
Fire, chemical, fuel, etc. Does not include braided vacuum cleaner hose.

67. BELTING:
Includes flat conveyor & transmission belts (both rubberized and nonrubberized) and V-belts.

69 & 77. ELECTRICAL APPLICATIONS & REINFORCED PLASTICS:
The cotton quantities are estimated.

Electrical Applications: Electric wire insulation & covering of all kinds plus friction tape and cable wrap, stuffing & identification.The total fiber consumed does not reflect the increased use of plastic and other nonfibrous coatings, of course.

Reinforced Plastics: High- and low-pressure laminates used in the manufacture of construction materials (corrugated & flat sheet, plumbing accessories, etc.), process equipment (tanks & containers, pipes, ducts, etc.), transportation uses (aircraft, autos, trucks, etc.) and marine, missiles, molded electrical parts, housing, seating, trays, etc. Flexible laminates of cotton are tabulated by end use, e.g., vinyl-supported upholstery fabric in Item 63, etc.

70. FELTS:
Wet & dry papermakers' felts, mattress felts and cushioning & wicking felts. Apparel felts (e.g., for shirts) are classified by apparel products. Patio and similar "felts" are in Item 50a. Laundry press pads and flatwork ironer pads are in Miscellaneous Industrial. The wool quantity includes some felts used in filtration (recorded here and not in Item 71), but excludes the substantial amounts used in pressed felts.

71. FILTRATION:
Woven and nonwoven filters for wet & dry filtration, including tea bags. The small wool quantity used in the copper refining industry is included in Item 70.

The fiber used in cigarette filtration is **not included** in this end use or in the Industrial Uses totals.

72. SEWING THREAD:
Home sewing and industrial & weight goods, as well as medical sutures.

73. ROPE (Braided & twisted), **CORDAGE** (under 3/16"), **FISHLINE, ETC:**
Includes hawsers, baler or harvest twine, clothesline, tying twine, etc., as well as fishnets, seines & netting twine.

74. BAGS & BAGGING:
Man-made Other Yarn is nylon mailbags plus olefin leno mesh & close-woven bags, including sandbags; also includes olefin bagging for wool bales. Carpet backing bale wrap is in Other Industrial.

75. COATED & PROTECTIVE FABRICS:
For the man-made fibers, tents & tarpaulins, as well as the substrates for vinyl, rubber or urethane coating, lamination or impregnation. Examples of specific end uses covered include parachutes, deceleration chutes & tow targets, awnings, beach, garden & tractor umbrellas, inflatable dunnage & cushions, air-supported structures & automotive air-spring diaphragms and boat & pool covers.

The cotton quantities include awnings, boat covers, tarpaulins and tents. **Not included** here are the cotton quanities used for vinyl substrates; such quantities are tabulated with their appropriate end use, i.e., transportation upholstery (Items 63 & 64), upholstery (Item 52), etc. Man-made fiber surfaces for recreational fields are not included in this survey.

76. PAPER & TAPE REINFORCING:
Gummed and pressure-sensitive tape, as well as nonwoven bonded structures for paper, tape and ribbon reinforcing.

79a. FIBERFILL, STUFFING & FLOCK:
All applications (apparel, home furnishings & industrial). Both graded fiber and waste are included. The consumption of polyester staple & tow in fiberfill for the years 1983-1987 inclusive was: 276.5, 277.7, 282.5, 296.0 & 349.5. For the same years, use of polyester waste for stuffing and filling materials was: 30.4, 24.8, 50.9, 60.3 & 64.5.

79b. UNALLOCATED NONWOVENS:
All nonwoven quantities remaining after the identifiable nonwoven end uses, such as medical, surgical & sanitary, filtration, coated & protective fabrics, and paper & tape reinforcing, have been calculated.

MISCELLANEOUS INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS:
The cotton for abrasives, book binding, luggage & handbags, shoes & slippers, tobacco cloth, woven wiping cloths and wall-covering fabrics. For rayon, it includes asbestos carrier fiber, laundry supplies and mop yarns. For olefin yarn, it includes agricultural cloth, bale wrap, cable binding, civil engineering fabrics and macramé and other craft yarns.

TABLE 11:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEMS & COUNTRY	1988												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	0	0	0	0	0						0	244
BRAZIL	54	0	28	55	28	13	69						247	314
CANADA	426	481	507	292	592	827	427						3552	1783
GERMANY, FED. REP.	353	635	281	227	388	313	358						2555	2649
JAPAN	277	131	45	121	62	63	54						753	407
MEXICO	62	53	18	81	70	68	115						467	234
NETHERLANDS	190	229	228	289	142	104	176						1358	516
ALL OTHER COUNTRIES [a]	11	1	21	67	44	178	35						357	47
TOTAL CELLULOSIC YARN	**1373**	**1530**	**1128**	**1132**	**1326**	**1566**	**1234**						**9289**	**6194**
CELLULOSIC STAPLE+TOW														
CANADA	1086	774	974	797	1355	1551	1309						7846	6969
ITALY	34	73	19	0	33	0	39						198	372
JAPAN	99	0	91	46	37	68	101						442	631
SWEDEN	0	41	45	0	20	0	0						106	219
UNITED KINGDOM	57	0	79	54	0	24	113						327	231
ALL OTHER COUNTRIES [b]	28	0	10	51	43	+	70						202	115
TOTAL CELLULOSIC STAPLE+TOW	**1304**	**888**	**1218**	**948**	**1488**	**1643**	**1632**						**9121**	**8537**
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436	1117	1665	894	172	530	803						6617	6077
BRAZIL	0	7	0	199	169	109	92						576	3
CANADA	1448	1872	2220	2156	2451	1677	1568						13392	10526
COSTA RICA	606	570	654	533	514	523	692						4092	4214
DENMARK	0	0	0	0	61	30	60						151	185
FRANCE	767	588	716	338	272	712	642						4035	3993
GERMANY, FED. REP.	1074	1355	1968	1078	1495	1146	1130						9246	14198
IRELAND	37	34	74	114	150	78	192						679	378
ISRAEL	388	309	123	304	182	254	273						1833	1317
ITALY	761	811	177	1678	942	412	1403						6184	7559
JAPAN	648	212	729	277	282	338	304						2790	4489
KOREA, REP. OF	3	23	33	63	0	40	1						163	214
MEXICO	1428	2004	1547	978	1622	1660	1545						10784	12030
NETHERLANDS	49	42	26	31	57	4	16						225	804
ROMANIA	12	58	40	160	122	519	0						911	81
SINGAPORE	81	41	44	19	34	35	23						277	276
TAIWAN	12	26	12	53	69	34	70						276	327
UNITED KINGDOM	676	753	220	632	917	751	819						4768	4832
ALL OTHER COUNTRIES [c]	192	179	167	58	54	156	147						953	1626
TOTAL NONCELLULOSIC YARN	**9618**	**10001**	**10415**	**9565**	**9565**	**9008**	**9780**						**67952**	**73129**
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601	727	752	1321	296	481	506						4684	1010
AUSTRALIA	38	0	36	19	0	693	46						832	63
BELGIUM	35	0	18	18	634	0	18						723	147
BRAZIL	0	0	0	499	0	0	0						499	1612
CANADA	2003	2183	2981	2221	2797	1824	2353						16362	19113
FRANCE	934	799	800	957	1257	934	826						6507	4652
GERMANY, FED. REP.	2738	3040	2503	2478	3319	2475	2793						19346	16124
INDIA	0	0	0	0	2575	2050	1556						6181	1
IRELAND	80	123	162	325	422	240	362						1714	544
ITALY	130	362	145	241	5	37	44						964	8760
JAPAN	1963	2057	1894	2166	1912	3095	1771						14858	13798
KOREA, REP. OF	1355	1516	1456	1580	1295	1604	2058						10864	6460
MALAYSIA	0	95	48	48	0	95	48						334	420
MEXICO	303	549	210	502	985	1043	822						4414	11970
ROMANIA	448	0	86	664	230	893	0						2321	2712
SWITZERLAND	102	21	153	189	123	122	160						870	663
TAIWAN	1986	1109	1425	1112	1024	1384	549						8589	13150
UNITED KINGDOM	1604	1503	2175	1920	1777	1745	1184						11908	8463
ALL OTHER COUNTRIES [d]	22	30	12	85	0	19	146						314	790
TOTAL NONCELLULOSIC STAPLE+TOW	**14342**	**14114**	**14856**	**16345**	**18651**	**18734**	**15242**						**112284**	**110452**

+ Less than 1 thousand pounds.

a. Singapore 97, United Kingdom 90, France 64, Korea, Rep. of 51, Morocco 46, Italy 7, Taiwan 2.

b. Austria 111, France 61, Australia 25, Germany, Fed. Rep. 2, Mexico 2, Belgium 1.

c. Spain 219, Chile 201, Sweden 102, Norway 97, Australia 89, Argentina 83, Turkey 68, Switzerland 56, Austria 20, China, PRC 11, Hong Kong 6, Vatican City 1, Egypt, Greece, India.

d. Israel 93, New Caledonia 70, Finland 57, Netherlands 40, Hong Kong 36, Spain 8, China, PRC 5, Egypt 3, Portugal 2, Philippines.

TABLE 12:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0	+	0	64	18	16	61						159	290
OTHER	310.0130 & .0230[a]	1362	1468	1021	995	1210	1412	1173						8641	5859
MONOFILAMENTS	309.0310 & .0610	0	+	0	1	1	0	0						2	5
STRIPS, $1/LB & UNDER	309.2000*	11	62	107	72	97	138	0						487	40
SUBTOTAL ABOVE		**1373**	**1530**	**1128**	**1132**	**1326**	**1566**	**1234**						**9289**	**6194**
STAPLE	309.4320 & .4325	1182	888	1107	934	1354	1492	1406						8363	8185
GROUPED FILAMENTS	309.3010 & .3310	122	0	111	14	134	151	226						758	352
SUBTOTAL ABOVE		**1304**	**888**	**1218**	**948**	**1488**	**1643**	**1632**						**9121**	**8537**
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	0	+	0	0	0	0	0						+	28
NONCELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341	297	204	271	150	176	175						1614	1026
450 DENIER AND OVER	310.0108 & .0208	1503	1643	1531	2018	1472	1080	1980						11227	17224
- POLYESTER	310.0110 & .0210	989	1368	1024	881	1327	1749	1033						8371	9143
- OTHER	310.0114 & .0214	2158	1830	2815	1920	1882	1811	2313						14729	11829
OTHER - NYLON	310.0149 & .0249	1154	1567	1602	1249	1672	1267	1216						9727	14302
- POLYESTER	310.0150 & .0250	2153	1631	1734	1657	1707	1719	1981						12582	12060
- OTHER	310.0170 & .0270[b]	762	1085	876	922	469	453	418						4985	4017
MONOFILAMENTS	309.0200 & .0330[c]	381	384	307	374	454	483	380						2763	2061
STRIPS, OVER $1/LB	309.2100 & .2500*	177	196	322	273	432	270	284						1954	1467
SUBTOTAL ABOVE		**9618**	**10001**	**10415**	**9565**	**9565**	**9008**	**9780**						**67952**	**73129**
STAPLE - NYLON	309.4331 & .4351	1696	1306	1915	2115	1707	1284	1468						11491	25488
- POLYESTER	309.4336 & .4361	4653	5670	4716	4932	7498	8268	6130						41867	39701
- ACRYLIC	309.4366	1214	953	1179	1399	1647	1377	1257						9026	8860
- OLEFIN	309.4371	83	104	534	498	165	174	40						1598	321
- OTHER	309.4341 & .4390	1350	1625	1750	2008	969	1907	1239						10848	7264
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713	2877	3289	3284	4091	3619	3596						24469	18034
POLYESTER	309.3040 & .3340	441	215	65	421	305	376	426						2249	2172
ACRYLIC	309.3050 & .3350	1086	1331	1249	1664	1631	1698	992						9651	7434
OTHER	309.3065 & .3365	106	33	159	24	638	31	94						1085	1178
SUBTOTAL ABOVE		**14342**	**14114**	**14856**	**16345**	**18651**	**18734**	**15242**						**112284**	**110452**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940	1991	1933	1842	2391	2267	1716						15060	16053
- POLYESTER	309.6630	550	487	1073	637	470	1233	716						5166	6179
- ACRYLIC	309.6645	0	0	21	110	0	2	0						133	150
- OTHER	309.6660	221	273	392	157	271	260	101						1675	3326
NOILS & GARNETTED FIBERS	309.7000*	80	0	0	33	0	0	0						113	31
OTHER WASTE, ADVANCED	309.7525 - .7555	596	596	637	323	366	280	286						3084	3007
SUBTOTAL ABOVE		**4387**	**3347**	**4056**	**3102**	**3498**	**4042**	**2819**						**25251**	**28646**
TOTAL MAN-MADE ABOVE		**31024**	**29880**	**31673**	**31092**	**34528**	**34993**	**30707**						**223897**	**226986**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0	0	0						+	2
- NONCELLULOSIC	310.1015[d]& .1205[e]	340	110	184	216	276	176	197						1499	2625
OTHER - CELLULOSIC	310.1030 & .1535[f]	15	21	5	34	19	22	15						131	316
- NONCELLULOSIC	310.1050 & .1070[g]	276	262	305	289	338	303	255						2028	1889
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	62	95	137	23	94	74	112						597	930
- OTHER	310.4015 & .4027[i]	2503	1471	1826	1155	2219	2781	174						12129	24957
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2122	1933	1143	1956	1629	1099	2762						12644	14527
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	607	197	1714	585	661	789	600						5153	5335
SLIVER, TOPS & ROVING	309.9000	271	287	351	530	234	181	359						2213	3750
GLASS FIBER	309.2800 & .2900[k]	2526	2716	404	2483	2271	2344	2110						14854	13021
GRAND TOTAL ABOVE		**39746**	**36972**	**37742**	**38363**	**42269**	**42762**	**37291**						**275145**	**294338**

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

+ Less than 1 thousand pounds.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, .1555, .1570, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 13:
U.S. EXPORTS OF MAN-MADE FIBER
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
FILAMENT YARN [a]															
TEXTURED	310.0004	27	2	6	31	61	5	11						143	334
OTHER [b]	310.0026	683	991	556	1220	1231	1269	582						6532	3410
MONOFILAMENTS	309.0110	89	36	5	36	9	45	0						220	41
STRIPS	309.2210	0	23	0	0	10	2	0						35	60
SUBTOTAL ABOVE		**799**	**1052**	**567**	**1287**	**1311**	**1321**	**593**						**6930**	**3845**
STAPLE+TOW-RAYON	309.4222	1019	1907	1702	1468	2682	2250	1615						12643	20804
STAPLE-ACETATE	309.4219	89	66	309	329	146	97	209						1245	937
SUBTOTAL ABOVE		**1108**	**1973**	**2011**	**1797**	**2828**	**2347**	**1824**						**13888**	**21741**
WASTE, ADVANCED&NOT ADVANCED	309.7400	**143**	**251**	**198**	**86**	**263**	**42**	**432**						**1415**	**718**
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651	4775	4929	3355	4209	4685	5391						30995	18612
- HIGH TENACITY [c]	310.0027	8372	8470	8040	6580	6438	6533	8344						52777	46656
- OTHER	310.0029	786	1111	2189	1186	1068	819	1072						8231	5187
POLYESTER - TEXTURED	310.0010	1739	2796	3405	2979	3311	2690	2371						19291	16302
- HIGH TENACITY [c]	310.0032	1421	1817	2189	2281	2706	2059	2534						15007	14709
- OTHER [d]	310.0034	207	225	265	284	135	68	239						1423	1104
OTHER - TEXTURED	310.0014	1067	1904	2220	1725	2118	1459	1720						12213	9994
- OLEFIN	310.0040	83	626	121	143	161	160	258						1552	323
- OTHER	310.0044	360	729	886	802	688	699	507						4671	4038
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	658	728	515	983	523	623	289						4319	3761
POLYESTER	309.0140	1641	1789	2345	1784	1871	1713	1992						13135	5501
OTHER	309.0170	680	901	768	769	847	603	553						5121	4202
STRIPS	309.2220 & .2270	415	192	277	442	454	394	346						2520	2596
SUBTOTAL ABOVE		**21080**	**26063**	**28149**	**23313**	**24529**	**22505**	**25616**						**171255**	**132985**
STAPLE - NYLON	309.4240	2423	1511	1760	981	1387	1491	1575						11128	12922
- POLYESTER	309.4242	13519	7586	10316	10132	11435	11625	13750						78363	106885
- ACRYLIC	309.4245	17224	11389	16118	7723	12187	4510	8350						77501	27710
- OLEFIN	309.4246	1488	1604	2696	2137	1784	1876	1683						13268	13261
- OTHER	309.4247	1228	1696	3193	1951	2312	2229	1358						13967	24654
GROUPED FILAMENTS															
NYLON	309.3220	693	497	469	339	601	746	639						3984	2811
POLYESTER [d]	309.3240	2108	1330	2067	794	2046	1953	1230						11528	12440
ACRYLIC	309.3250 & .3255	4966	3683	3809	2267	3498	2338	3049						23610	14137
SUBTOTAL ABOVE		**43649**	**29296**	**40428**	**26324**	**35250**	**26768**	**31634**						**233349**	**214820**
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	685	1210	1189	1492	1287	2199	1489						9551	6974
- POLYESTER	309.7630	3959	4435	6616	4231	4813	5219	3829						33102	32401
- ACRYLIC	309.7640	312	1219	923	676	970	795	671						5566	6011
- OTHER	309.7660	3765	3582	3138	3474	3605	3309	3019						23892	20340
SUBTOTAL ABOVE		**8721**	**10446**	**11866**	**9873**	**10675**	**11522**	**9008**						**72111**	**65726**
TOTAL MAN-MADE ABOVE		**75500**	**69081**	**83219**	**62680**	**74856**	**64505**	**69107**						**498948**	**439835**
GLASS FIBER	309.2700 & .9700	8813	9352	9114	8934	7139	8164	9712						61228	49040
GRAND TOTAL ABOVE		**84313**	**78433**	**92333**	**71614**	**81995**	**72669**	**78819**						**560176**	**488875**

SOURCE: U.S. Census Bureau Report EM522.
+ Less than 1 thousand pounds.
a. Includes singles and plied yarn.
b. Includes rayon tire cord.
c. Includes noncellulosic tire cord.
d. Includes zero twist yarns.

TABLE 14:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

	1988												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
	MAN-MADE FIBER TOTAL SHIPMENTS[b,c]													
CELLULOSIC														
YARN	15.9	16.1	18.1	19.4	18.3	17.5	19.1	18.6					143.0	123.1
RAYON STAPLE	32.6	35.9	38.5	35.5	36.4	36.2	29.1	36.1					280.3	269.7
TOTAL CELLULOSIC	**48.5**	**52.0**	**56.6**	**54.9**	**54.7**	**53.7**	**48.2**	**54.7**					**423.3**	**392.8**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5	32.1	34.8	32.2	30.8	32.4	32.4	28.8					251.0	251.4
- CARPET	72.6	80.7	84.6	80.7	81.9	79.3	73.7	89.7					643.2	637.1
- TEXTILE[f]	30.0	31.2	34.5	31.7	32.0	32.6	27.7	32.5					252.2	252.9
POLYESTER - INDUSTRIAL[d]	26.5	29.3	30.7	31.3	29.4	32.3	29.3	29.0					237.8	221.9
- TEXTILE[f]	62.9	68.4	67.7	74.3	71.9	70.5	70.2	66.7					552.6	558.8
OLEFIN[e]	97.2	101.4	102.4	102.7	102.9	102.8	89.0	103.6					802.0	730.0
TOTAL YARN	**316.7**	**343.1**	**354.7**	**352.9**	**348.9**	**349.9**	**322.3**	**350.3**					**2738.8**	**2652.1**
STAPLE+TOW+FIBERFILL														
NYLON	78.0	81.7	83.4	71.0	77.9	79.2	75.0	90.0					636.2	675.5
ACRYLIC+MODACRYLIC	48.5	52.8	55.4	45.4	45.6	47.4	42.1	53.2					390.4	400.2
POLYESTER	190.4	202.4	198.5	212.1	195.8	195.7	185.2	195.7					1575.8	1547.6
OLEFIN	29.1	29.6	30.7	29.8	31.2	32.4	26.9	32.1					241.8	238.3
TOTAL STAPLE	**346.0**	**366.5**	**368.0**	**358.3**	**350.5**	**354.7**	**329.2**	**371.0**					**2844.2**	**2861.6**
TOTAL NONCELLULOSIC	**622.7**	**709.6**	**722.7**	**711.2**	**699.4**	**704.6**	**651.5**	**721.3**					**5583.0**	**5513.7**
TOTAL MAN-MADE FIBER	**711.2**	**761.6**	**779.3**	**766.1**	**754.1**	**758.3**	**699.7**	**776.0**					**6006.3**	**5906.5**
	MAN-MADE FIBER END OF MONTH STOCK													
CELLULOSIC														
YARN	12.3	13.3	13.2	14.0	12.8	12.4	13.4	11.6					11.6	13.3
RAYON STAPLE	23.5	22.5	20.3	18.0	16.5	13.4	15.5	13.7					13.7	21.2
TOTAL CELLULOSIC	**35.8**	**35.8**	**33.5**	**32.0**	**29.3**	**25.8**	**28.9**	**25.3**					**25.3**	**34.5**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6	25.7	23.5	23.3	25.2	24.7	28.1	30.4					30.4	24.9
- CARPET	72.0	66.5	67.0	67.1	70.2	71.9	78.0	61.9					61.9	49.3
- TEXTILE[f]	51.8	50.1	47.1	47.2	48.7	47.8	51.9	51.4					51.4	47.0
POLYESTER - INDUSTRIAL[d]	29.8	29.2	28.8	29.6	30.5	29.2	33.3	32.4					32.4	28.1
- TEXTILE[f]	82.5	81.5	79.5	77.3	79.7	82.9	94.4	94.4					94.4	85.0
OLEFIN[e]	54.4	55.0	53.5	54.1	54.5	54.0	55.3	53.7					53.7	55.7
TOTAL YARN	**317.1**	**308.0**	**299.4**	**298.6**	**308.8**	**310.5**	**341.0**	**324.2**					**324.2**	**290.0**
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7	57.5	64.4	60.5	65.2	66.5	60.6					60.6	61.6
ACRYLIC+MODACRYLIC	62.4	58.8	55.4	57.9	63.7	67.9	72.8	67.3					67.3	70.0
POLYESTER	173.7	168.3	157.8	161.8	167.4	173.7	205.7	194.9					194.9	180.6
OLEFIN	32.5	33.7	35.0	35.8	37.8	36.1	38.5	38.4					38.4	32.9
TOTAL STAPLE	**332.0**	**325.5**	**305.7**	**319.9**	**329.4**	**342.9**	**383.5**	**361.2**					**361.2**	**345.1**
TOTAL NONCELLULOSIC	**649.1**	**633.5**	**605.1**	**618.5**	**637.6**	**653.4**	**724.5**	**685.4**					**685.4**	**635.1**
TOTAL MAN-MADE FIBER	**684.9**	**669.3**	**638.6**	**650.5**	**666.9**	**679.2**	**753.7**	**710.7**					**710.7**	**669.6**
	WOOL & COTTON CONSUMPTION													
APPAREL CLASS WOOL	12.9	11.7	14.1	11.3	11.5	13.0							74.5	82.9
CARPET CLASS WOOL	1.4	1.5	1.6	1.4	1.4	1.1							8.4	6.2
TOTAL RAW WOOL	14.3	13.2	15.7	12.7	12.9	14.1							82.9	89.1
RAW COTTON	300.0	311.4	339.3	278.0	302.6	294.1							1825.4	1863.9

a. "Year to date" totals for stock, are the latest month's figures.
b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
c. Producers' total domestic shipments plus export shipments.
d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
f. Includes low denier industrial yarn.

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TEXTILE ORGANON

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Highlights

- U.S. Man-Made Fiber Textile Trade Balance: An Overview ... begins on page 220.
- Mill Consumption in Selected Countries ... see page 226.
- Selected U.S. Exports by Country of Destination ... see page 232.
- Quarterly Man-Made Fiber Data ... see page 234.

SHIPMENTS:

In September, U.S. total man-made fiber shipments were 774 million pounds, a 2 million pound decline from the previous month. Compared with the previous September, total fiber shipments were down 17 million pounds or 2%, but for the year to date they remained ahead 1%.

Fiber products showing the largest gains over the previous month include polyester staple up 6 million pounds, olefin yarn up 5 million pounds and polyester textile yarn up 2 million pounds. The product with the largest decline for the month was nylon staple, down 9 million pounds.

For the first three quarters of 1988, compared with the same period last year, total fiber shipments were up 84 million pounds. Included in that total are a 73 million pound increase in olefin yarn, a 26 million pound increase in cellulosic fiber, and a 23 million pound increase in polyester staple. The total also reflects a 42 million pound decline in nylon staple shipments.

TABLE 1:
TOTAL U.S. MAN-MADE FIBER SHIPMENTS
MILLION POUNDS & *PERCENT CHANGE*

ITEM	1988 SEP	1988 AUG	% CHG 8/88-9/88	1987 SEP	% CHG 9/87-9/88	YEAR TO DATE 1988	YEAR TO DATE 1987	% CHG YTD 1987-1988
CELLULOSIC								
YARN	18.1	18.6	*-2.7*	16.9	*+7.1*	161.1	140.0	*+15.1*
RAYON STAPLE	34.3	36.1	*-5.0*	39.9	*-14.0*	314.6	309.6.	*+1.6*
TOTAL CELLULOSIC	**52.4**	**54.7**	***-4.2***	**56.8**	***-7.7***	**475.7**	**449.6**	***+5.8***
NONCELLULOSIC								
YARN+MONOFILAMENT								
NYLON - INDUSTRIAL	29.2	28.8	*+1.4*	29.6	*-1.4*	280.2	281.0	*-0.3*
- CARPET	87.7	89.4	*-1.9*	89.1	*-1.6*	730.6	726.2	*+0.6*
- TEXTILE[a]	32.5	32.5	- -	33.5	*-3.0*	284.7	286.4	*-0.6*
POLYESTER - INDUSTRIAL	29.5	29.0	*+1.7*	30.7	*-3.9*	267.3	252.6	*+5.8*
- TEXTILE[a]	69.1	66.7	*+3.6*	72.0	*-4.0*	621.7	630.8	*-1.4*
OLEFIN	108.1	103.6	*+4.3*	107.0	*+1.0*	910.1	837.0	*+8.7*
TOTAL YARN	**356.1**	**350.0**	***+1.7***	**361.9**	***-1.6***	**3094.6**	**3014.0**	***+2.7***
STAPLE+TOW+FIBERFILL								
NYLON	81.3	90.0	*-9.7*	84.1	*-3.3*	717.5	759.6	*-5.5*
ACRYLIC+MODACRYLIC	51.8	53.2	*-2.6*	47.3	*+9.5*	442.2	447.5	*-1.2*
POLYESTER	202.1	195.7	*+3.3*	207.7	*-2.7*	1778.4	1755.3	*+1.3*
OLEFIN	30.2	32.1	*-5.9*	32.6	*-7.4*	272.0	270.9	*+0.4*
TOTAL STAPLE	**365.4**	**371.0**	***-1.5***	**371.7**	***-1.7***	**3210.1**	**3233.3**	***-0.7***
TOTAL NONCELLULOSIC	**721.5**	**721.0**	***+0.1***	**733.6**	***-1.6***	**6304.7**	**6247.3**	***+0.9***
TOTAL MAN-MADE FIBER	**773.9**	**775.7**	***-0.2***	**790.4**	***-2.1***	**6780.4**	**6696.9**	***+1.2***
TOTAL SHIPMENTS DIVIDED AS -								
DOMESTIC SHIPMENTS[b]	720.0	726.3	*-0.9*	739.5	*-2.6*	6337.4	6285.5	*+0.8*
EXPORTS[c]	53.9	49.4	*+9.1*	50.9	*+5.9*	443.0	411.4	*+7.7*

a. Includes low denier industrial yarn.
b. Includes olefin exports.
c. Excludes olefin exports.

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President
Rosemarie D. Frick

Editor, Textile Organon
David S. Morey

Publishing Headquarters:
Textile Economics Bureau, Inc.
101 Eisenhower Parkway
Roseland, NJ 07068
U.S.A.
Telephone: (201) 228-1107
Facsimile: (201) 228-7598

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U.S. GARMENT IMPORT TRADE BALANCE INCREASED 11% IN 1987

The import balance in the U.S. garment trade increased 96 million pounds or 11% in 1987 to reach a new high of 951 million pounds. This quantity is 378% of the 1980 level. This apparel import balance growth reflects a 104 million pound increase of apparel imports. (See Table 5)

U.S. IMPORT BALANCE IN FIBER MANUFACTURES INCREASED 3% IN 1987

The import balance of man-made fiber manufactures (including garments) increased 30 million pounds, or 3% in 1987, to reach 1,214 million pounds. Imports, excluding garments, at 772 million pounds were virtually unchanged since the previous year. However, 1987 imports were at a level which was 477% of the 162 million pounds imported in 1980. Exports excluding garments were ahead 65 million pounds or 15% for the year, but at the 509 million pound level were still 21% less than the 644 million pounds exported in 1980. (See Table 4A)

MILL CONSUMPTION INCREASED IN SELECTED COUNTRIES

Between 1986 and 1987, U.S. mill consumption of man-made, cotton and wool fibers increased 7% or 835 million pounds to reach a total of 12,755 million pounds. In the same period, mill consumption in Japan increased 10% or 479 million pounds to reach 5,138 million pounds according to data collected by the Japan Chemical Fibers Association. The latest data (1986) available from C.I.R.F.S. indicates a one year gain of 243 million pounds or 3% in the E.E.C. countries. Based on data from the Taiwan Man-Made Fiber Industries Association, mill consumption in that country increased 239 million pounds, or 7% in 1987, to reach the 3,891 million pound level. (See Table 7)

EASTMAN TO REDUCE POLYESTER STAPLE CAPACITY

Eastman will phase out 240 million pounds/year of polyester staple fiber capacity over the next 18 months. The plant concerned is located in Columbia, SC and serves the weaving market. Eastman's second plant in Kingsport, TN will remain in production to serve their other markets. (Eastman Chemical Products, Inc. news release)

U.S. MAN-MADE FIBER TEXTILE TRADE BALANCE: AN OVERVIEW

In 1987, the U.S. balance of trade in man-made fiber and manufactures remained at a high import balance level. Imports themselves increased 105 million pounds or 5% to reach 2192 million pounds. Exports also increased by 140 million pounds to reach 1345 million pounds. The net balance therefore is an import trade balance of 848 million pounds, a level close to the record import balance reached in 1986. (See Table 2)

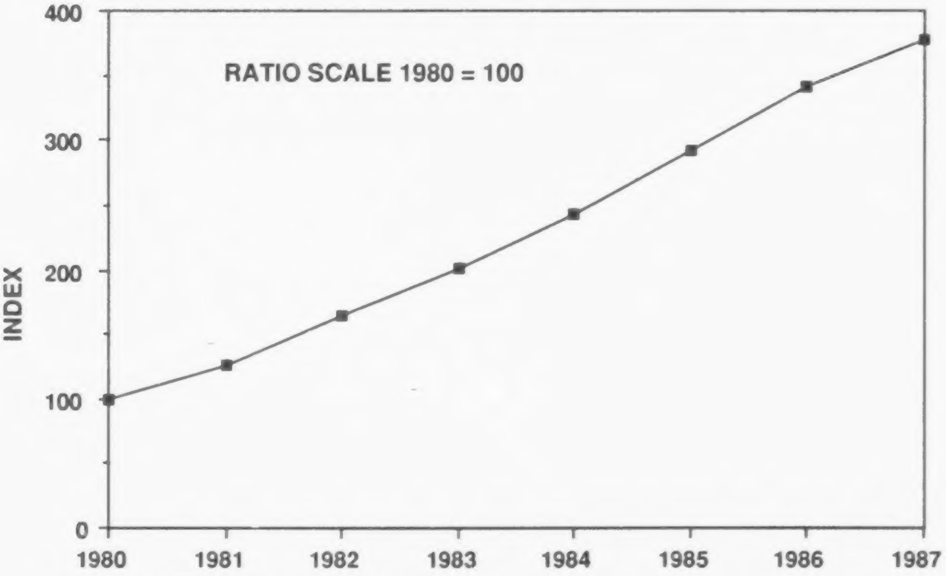
The continuing rapid growth of garment imports represents the major factor causing the overall import balance. In 1987 the garment import trade balance increased 96 million pounds or 11% to reach 951 million pounds. Since 1980 the garment import balance has been growing at an average 21% annual rate. (See Table 4B)

As shown in Graph 1, the index of garment import trade balance has grown steadily since 1980. With 1980 as being the base point of 100, the 1987 index rose to 378.

The U.S. balance of trade in man-made fiber manufactures, excluding garments, was an import balance of 263 million pounds. The imports themselves at 772 million pounds were at almost the same level as 1986. However, a 65 million pound increase in exports produced a corresponding reduction in the import trade balance for 1987.

Man-made fibers alone experienced a 366 million pound export trade balance. That figure is 64 million pounds above the 1986 quantity, but still well below the levels of the early 1980's. (See Graph 3)

GRAPH 1: INDEX OF U.S. GARMENT IMPORT TRADE BALANCE 1980 - 1987



NOTE: Indexed from import balance in million pounds from Table 4B.

GRAPH 2:
U.S. BALANCE OF TRADE IN MAN-MADE FIBER & MANUFACTURES
1980 - 1987

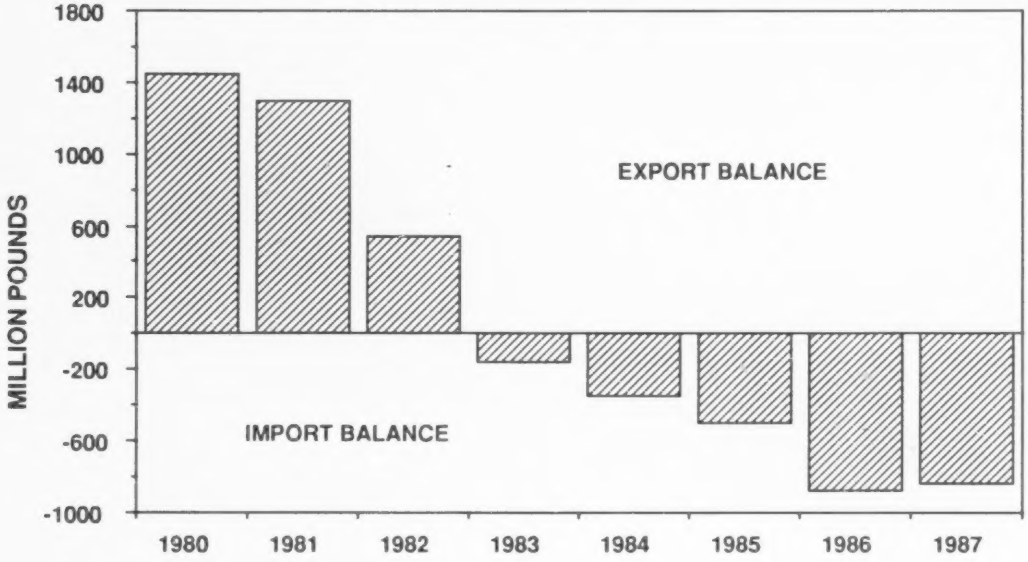


TABLE 2:
U.S. IMPORTS, EXPORTS & BALANCE IN MAN-MADE FIBER & MANUFACTURES
1980-1987

MILLION POUNDS

YEAR	IMPORTS	EXPORTS	BALANCE [a]	
1980	636.3	2079.8	1443.5	E
1981	796.4	2088.7	1292.3	E
1982	831.5	1374.3	542.8	E
1983	1287.9	1130.8	157.1	I
1984	1641.8	1316.0	325.8	I
1985	1822.4	1316.7	505.7	I
1986	2086.6	1204.6	882.0	I
1987	2192.0	1344.5	847.5	I

SOURCE: U.S. Census Bureau Report IM146 and EM546. U.S. Department of Agriculture, ***Cotton & Wool Outlook and Situation Report.***

[a] I Import Balance. **E** Export Balance.

GRAPH 3:
U.S. BALANCE OF TRADE IN MAN-MADE FIBER VS. MAN-MADE FIBER MANUFACTURES
1980 - 1987

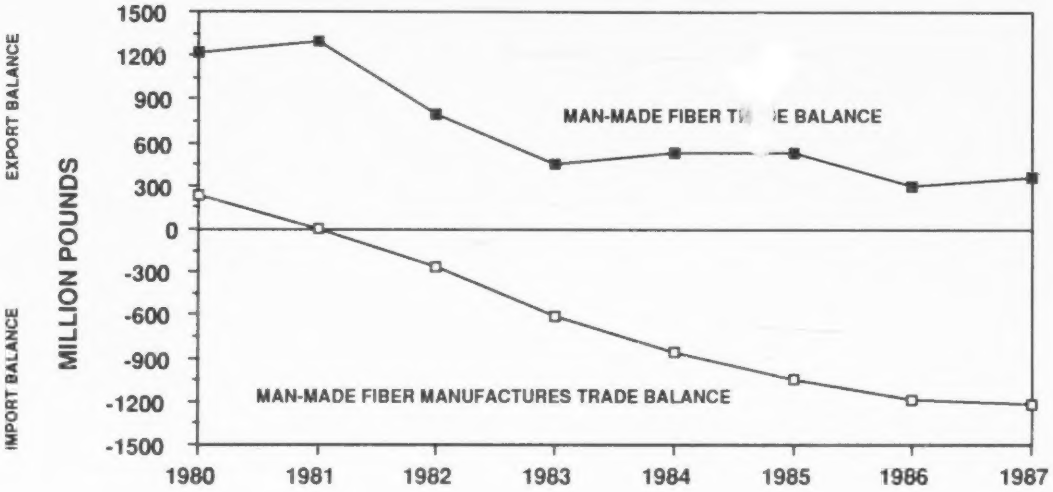


TABLE 3A:
U.S. IMPORTS, EXPORTS & BALANCE IN MAN-MADE FIBER
1980 -1987
MILLION POUNDS

YEAR	IMPORTS	EXPORTS	BALANCE [a]
1980	95.7	1308.3	1212.6 E
1981	157.3	1451.0	1293.7 E
1982	133.5	935.8	802.3 E
1983	218.5	670.1	451.6 E
1984	299.2	828.1	528.9 E
1985	331.4	867.6	536.2 E
1986	383.7	685.3	301.6 E
1987	386.6	752.6	366.0 E

TABLE 3B:
U.S. IMPORTS, EXPORTS & BALANCE IN MAN-MADE FIBER MANUFACTURES
1980-1987
MILLION POUNDS

YEAR	IMPORTS	EXPORTS	BALANCE [a]
1980	540.6	771.5	230.9 E
1981	639.1	637.7	1.4 I
1982	698.0	438.5	259.5 I
1983	1069.4	460.7	608.7 I
1984	1342.6	487.9	854.7 I
1985	1491.0	449.1	1041.8 I
1986	1702.9	519.3	1183.6 I
1987	1805.4	591.9	1213.5 I

SOURCE: U.S. Census Bureau Report IM146 and EM546. U.S. Department of Agriculture, ***Cotton & Wool Outlook and Situation Report.***
a. I Import Balance. **E** Export Balance.

GRAPH 4:
U.S. IMPORT & EXPORT BALANCE IN MAN-MADE FIBER MANUFACTURES
1980 - 1987

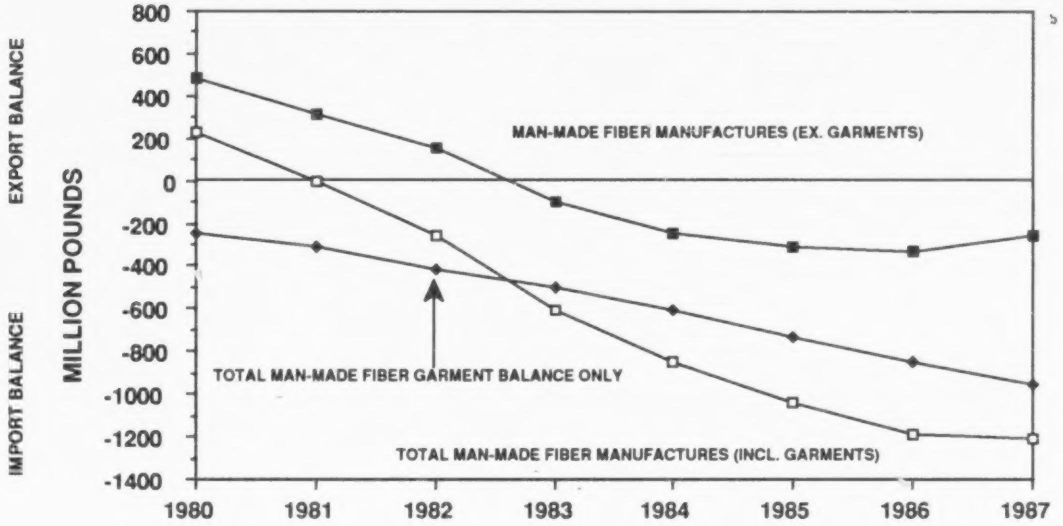


TABLE 4A:
U.S. IMPORTS, EXPORTS & BALANCE IN MAN-MADE FIBER MANUFACTURES (EXCLUDING TRADE IN GARMENTS)
1980-1987
MILLION POUNDS

YEAR	IMPORTS	EXPORTS	BALANCE [a]
1980	162.0	644.4	482.4 E
1981	202.0	517.0	315.0 E
1982	211.5	363.3	151.8 E
1983	493.4	389.9	103.5 I
1984	655.1	408.4	246.7 I
1985	690.9	383.9	307.0 I
1986	773.6	444.4	329.2 I
1987	772.2	509.3	262.9 I

TABLE 4B:
U.S. GARMENTS TRADE BALANCE
1980-1987
MILLION POUNDS

YEAR	BALANCE [a]
1980	251.5 I
1981	315.4 I
1982	411.3 I
1983	505.2 I
1984	608.0 I
1985	734.9 I
1986	854.4 I
1987	950.6 I

SOURCE: U.S. Census Bureau Report IM146 and EM546. U.S. Department of Agriculture, ***Cotton & Wool Outlook and Situation Report.***

[a] I Import Balance. E Export Balance.

TABLE 5:
U.S. IMPORTS, EXPORTS & BALANCE IN MAN-MADE FIBER & MANUFACTURES, COTTON MANUFACTURES & WOOL MANUFACTURES
THOUSAND POUNDS

	1984			1985			1986			1987		
PRODUCTS	IMP	EXP	BAL [a]	IMP	EXP	BAL [a]	IMP	EXP	BAL [a]	IMP	EXP	BAL [a]
RAYON+ACETATE												
YARN+MONOFILAMENTS	9981	8834	1147 I	13923	10629	3294 I	16963	7346	9617 I	12811	6427	6384 I
STAPLE+TOW	16993	55972	38979 E	12308	37824	25516 E	17428	32566	15138 E	13824	34502	20678 E
WASTE	530	1632	1102 E	479	1207	728 E	121	2222	2101 E	85	1090	1005 E
SUBTOTAL	**27504**	**66438**	**38934 E**	**26710**	**49660**	**22950 E**	**34512**	**42134**	**7622 E**	**26720**	**42019**	**15299 E**
NONCELLULOSIC FIBERS												
YARN+MONOFILAMENTS	89992	242455	152463 E	104561	325803	221242 E	126057	255572	129515 E	123930	231182	107252 E
STAPLE+TOW	131159	429563	298404 E	159446	416512	257066 E	182790	263914	81124 E	188985	365929	176944 E
WASTE	50547	89659	39112 E	40673	75645	34972 E	40303	123696	83393 E	46957	113527	66570 E
SUBTOTAL	**271698**	**761677**	**489979 E**	**304680**	**817960**	**513280 E**	**349150**	**643182**	**294032 E**	**359872**	**710638**	**350766 E**
TOTAL FIBER [b]	**299202**	**828115**	**528913 E**	**331390**	**867620**	**536230 E**	**383662**	**685316**	**301654 E**	**386592**	**752657**	**366065 E**
MAN-MADE FIBER MANUFACTURES [c]												
SLIVER, TOPS & ROVING	4689	5681	992 E	2057	8543	6486 E	3424	4632	1208 E	5793	5191	602 I
SPUN YARNS	46265	26228	20037 I	45541	37748	7793 I	64540	38228	26312 I	63516	42737	20779 I
THREAD & CRAFT YARNS	5719	6419	700 E	9670	4773	4897 I	4730	5042	312 E	8850	5967	2883 I
TIRE CORD & FABRIC	466	31329	30863 E	915	30350	29435 E	2676	46290	43614 E	5599	53760	48161 E
WOVEN FABRIC	154947	109400	45547 I	186198	124873	61325 I	207180	134581	72599 I	182515	152653	29862 I
KNIT FABRICS	3043	12865	9822 E	9700	11832	2132 E	12496	11719	777 I	14569	11607	2962 I
NARROW FABRICS	12441	30331	17890 E	18449	21875	3426 E	25308	37949	12641 E	14636	45647	31011 E
APPAREL - KNIT	270573	79445	608023 I	341372	65225	734878 I	431179	74906	854452 I	485359	82532	950692 I
- NOT KNIT	416895			458731			498179			547865		
HOME FURNISHINGS	427531	102770	241361 I	418393	70291	274470 I	453240	86817	287282 I	476740	100989	284966 I
OTHER		83400			73632			79141			90785	
TOTAL MANUFACTURES	**1342569**	**487868**	**854701 I**	**1491026**	**449142**	**1041884 I**	**1702952**	**519305**	**1183647 I**	**1805442**	**591868**	**1213574 I**
TOTAL MAN-MADE FIBER & MANUFACTURES	**1641771**	**1315983**	**325788 I**	**1822416**	**1316762**	**505654 I**	**2086614**	**1204621**	**881993 I**	**2192034**	**1344525**	**847509 I**
COTTON MANUFACTURES [d]	**1465575**	**206081**	**1259494 I**	**1629166**	**213224**	**1415942 I**	**1910477**	**274828**	**1635649 I**	**2335692**	**298004**	**2037688 I**
WOOL MANUFACTURES [e]	**210165**	**12028**	**198137 I**	**264822**	**17761**	**247061 I**	**275623**	**16030**	**259593 I**	**276092**	**23461**	**252631 I**

SOURCES: The man-made fiber import and export data are from the U.S Census Bureau Reports IM146 and EM546.

The man-made, cotton and wool manufactures data are from U.S. Department of Agriculture ***"Cotton and Wool Outlook Situation."***

The total man-made fiber and manufactures import, export and balance data of this table cover the cellulosic and noncellulosic fibers only; glass fiber is excluded.

a. E Export Balance; I Import Balance.

b. The fibers included are shown as ***"Total Man-Made Fiber Above"*** on pages 230 and 231 of this issue.

c. Man-made fiber equivalent.

d. Raw cotton equivalent. Data are similiar to those on page 180 of the August 1988 ***TEXTILE ORGANON***.

e. Raw wool content. The data differ from those on page 180 of the August 1988 ***TEXTILE ORGANON*** to the extent that noils and waste are included here.

TABLE 6:
SUMMARY OF U.S. IMPORTS, EXPORTS & BALANCE IN MAN-MADE FIBERS & MANUFACTURES
MILLION POUNDS

ITEM	1984	1985	1986	1987
IMPORTS				
TOTAL FIBER [a]	299.2	331.4	383.7	386.6
TOTAL MANUFACTURES [b]	1342.6	1491.0	1702.9	1805.4
TOTAL IMPORTS	**1641.8**	**1822.4**	**2086.6**	**2192.0**
EXPORTS				
TOTAL FIBER [a]	828.1	867.6	685.3	752.6
TOTAL MANUFACTURES [b]	487.9	449.1	519.3	591.9
TOTAL EXPORTS	**1316.0**	**1316.7**	**1204.6**	**1344.5**
BALANCE [c]	325.7 I	505.7 I	882.0 I	847.5 I
U.S. PRODUCTION [d]	8328.7	8390.3	8718.7	9153.9
U.S. NET AVAILABLE	8654.5	8896.0	9600.7	10001.4
IMPORTS AS % OF PRODUCTION	*19.7*	*21.7*	*23.9*	*23.9*
EXPORTS AS % OF PRODUCTION	*15.8*	*15.7*	*13.8*	*14.7*

[a] As shown in Total Fiber in Table 5, page 224 of this issue.

[b] As shown in Total Manufactures in Table 5, page 224 of this issue.

[c] E Export Balance; I Import Balance.

[d] Production of yarn, monofilaments, staple+tow (excluding glass fiber) and producers' shipments of waste from the March 1988 ***Textile Organon***, pages 48 and 52.

TABLE 7:
MILL CONSUMPTION OF MAN-MADE FIBER, COTTON & WOOL IN SELECTED COUNTRIES
MILLION POUNDS & *PERCENT*

									MAN-MADE FIBER DETAIL							
									CELLULOSIC				NONCELLULOSIC			
	GRAND TOTAL		COTTON		WOOL		MAN-MADE FIBERS		TOTAL		YARN	STAPLE	TOTAL		YARN	STAPLE
YEAR	LBS	%[a]	LBS	%[a]	LBS	%[a]	LBS	%[a]	LBS	%[a]	LBS	LBS	LBS	%[a]	LBS	LBS
U.S.A[b]																
1980	11088	100	3064	27.7	138	1.2	7886	71.1	741	6.7	325	416	7145	64.4	3552	3593
1981	10606	100	2731	25.8	153	1.4	7722	72.8	715	6.7	284	431	7007	66.1	3502	3505
1982	9263	100	2479	26.8	130	1.4	6654	71.8	522	5.6	206	316	6132	66.2	2918	3214
1983	10954	100	2796	25.5	163	1.5	7995	73.0	599	5.5	242	357	7396	67.5	3434	3962
1984	10621	100	2668	25.1	163	1.5	7790	73.4	588	5.6	228	360	7202	67.8	3399	3803
1985	10967	100	2796	25.5	135	1.2	8036	73.3	546	5.0	201	345	7490	68.3	3664	3826
1986	11920	100	3302	27.7	165	1.4	8453	70.9	608	5.1	209	399	7845	65.8	3747	4098
1987	12755	100	3743	29.4	168	1.3	8844	69.3	586	4.6	180	406	8258	64.7	3927	4331
JAPAN[c]																
1980	862	100	1576	32.4	307	6.3	2979	61.3	549	11.3	170	379	2430	50.0	1258	1172
1981	4676	100	1533	32.8	307	6.6	2836	60.6	525	11.2	155	370	2311	49.4	1206	1105
1982	4900	100	1724	35.2	349	7.1	2827	57.7	530	10.8	152	378	2297	46.9	1165	1132
1983	4636	100	1457	31.4	310	6.7	2869	61.9	531	11.5	137	394	2338	50.4	1197	1141
1984	4912	100	1553	31.6	363	7.4	2996	61.0	550	11.2	145	405	2446	49.8	1253	1193
1985	4819	100	1486	30.9	377	7.8	2956	61.3	535	11.1	143	392	2421	50.2	1236	1185
1986	4659	100	1534	32.9	340	7.3	2785	59.8	508	10.9	136	372	2277	48.9	1169	1108
1987	5138	100	1845	35.9	385	7.5	2908	56.6	483	9.4	134	349	2425	47.2	1234	1191
EEC[d]																
1980	7447	100	1996	26.8	958	12.9	4493	60.3	1075	14.4	367	708	3418	45.9	1364	2054
1981	7187	100	1828	25.4	910	12.7	4449	61.9	985	13.7	317	668	3464	48.2	1379	2085
1982	6967	100	1943	27.9	827	11.9	4197	60.2	921	13.2	282	639	3276	47.0	1320	1956
1983	7246	100	1960	27.1	815	11.2	4471	61.7	911	12.6	274	637	3560	49.1	1398	2162
1984	8918	100	2508	28.1	927	10.4	5483	61.5	1089	12.2	321	768	4394	49.3	1693	2701
1985	9299	100	2505	26.9	936	10.1	5858	63.0	1150	12.4	361	789	4708	50.6	1799	2909
1986	9542	100	2656	27.9	936	9.8	5950	62.3	1127	11.8	351	776	4823	50.5	1854	2969
1987	DATA NOT AVAILABLE															
TAIWAN[e]																
1980	1866	100	505	27.0	31	1.7	1330	71.3	DETAIL NOT AVAILABLE							
1981	1867	100	525	28.1	31	1.7	1311	70.2								
1982	2005	100	558	27.8	37	1.9	1410	70.3								
1983	2309	100	597	25.9	40	1.7	1672	72.4								
1984	2656	100	644	24.2	42	1.6	1970	74.2								
1985	3150	100	950	30.2	32	1.0	2168	68.8								
1986	3652	100	970	26.6	53	1.4	2629	72.0								
1987	3891	100	983	25.3	56	1.4	2852	73.3								

---

a. The percentages in these columns show the share of each fiber in the specified year. They add to the 100% shown in each of the Grand Total Columns.

b. Mill Consumption is taken from pages 74 and 75 of the 1988 April ***Textile Organon.*** Glass and Other Fibers are excluded.

c. **Source:** Japan Chemical Fibers Association.

d. **Source:** C.I.R.F.S. The EEC Countries in this table are: Belgium, France, Italy, Luxembourg, Netherlands, Germany, Fed. Rep. of and the U.K.

e. **Source:** Man-Made: Taiwan Man-Made Fiber Industries Association
Cotton: Secretariat of the International Cotton Advisory Committee
Wool: Commonwealth Secretariat International Wool Textile Organization

TABLE 8:
SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

	1988												YEAR TO DATE	
ITEMS & COUNTRY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC YARN, MONOFIL & STRIPS														
AUSTRIA	0	0	0	0	0	0	0	0					0	244
BRAZIL	54	0	28	55	28	13	69	29					276	358
CANADA	426	481	507	292	592	827	427	739					4291	1963
GERMANY, FED. REP. OF	353	635	281	227	388	313	358	355					2910	3148
JAPAN	277	131	45	121	62	63	54	17					770	423
MEXICO	62	53	18	81	70	68	115	86					553	345
NETHERLANDS	190	229	228	289	142	104	176	218					1576	692
ALL OTHER COUNTRIES [a]	11	1	21	67	44	178	35	86					443	127
TOTAL CELLULOSIC YARN	**1373**	**1530**	**1128**	**1132**	**1326**	**1566**	**1234**	**1530**					**10819**	**7300**
CELLULOSIC STAPLE+TOW														
CANADA	1086	774	974	797	1355	1551	1309	2131					9977	8084
ITALY	34	73	19	0	-33	0	39	32					230	521
JAPAN	99	0	91	46	37	68	101	45					487	691
SWEDEN	0	41	45	0	20	0	0	0					106	219
UNITED KINGDOM	57	0	79	54	0	24	113	50					377	258
ALL OTHER COUNTRIES [b]	28	0	10	51	43	+	70	2					204	115
TOTAL CELLULOSIC STAPLE+TOW	**1304**	**888**	**1218**	**948**	**1488**	**1643**	**1632**	**2260**					**11381**	**9886**
NONCELLULOSIC YARN, MONOFIL & STRIPS														
BELGIUM	1436	1117	1665	894	172	530	803	630					7247	8199
BRAZIL	0	7	0	199	169	109	92	203					779	3
CANADA	1448	1872	2220	2156	2451	1677	1568	2139					15531	12252
COSTA RICA	606	570	654	533	514	523	692	442					4534	4703
DENMARK	0	0	0	0	61	30	60	0					151	185
FRANCE	767	588	716	338	272	712	642	960					4995	4084
GERMANY, FED. REP. OF	1074	1355	1968	1078	1495	1146	1130	1342					10588	16250
IRELAND	37	34	74	114	150	78	192	114					793	378
ISRAEL	388	309	123	304	182	254	273	281					2114	1617
ITALY	761	811	177	1678	942	412	1403	829					7013	7953
JAPAN	648	212	729	277	282	338	304	337					3127	5180
KOREA, REP. OF	3	23	33	63	0	40	1	0					163	239
MEXICO	1428	2004	1547	978	1622	1660	1545	1659					12443	13298
NETHERLANDS	49	42	26	31	57	4	16	10					235	894
ROMANIA	12	58	40	160	122	519	0	0					911	145
SINGAPORE	81	41	44	19	34	35	23	23					300	331
TAIWAN	12	26	12	53	69	34	70	103					379	416
UNITED KINGDOM	676	753	220	632	917	751	819	1050					5818	5605
ALL OTHER COUNTRIES [c]	192	179	167	58	54	156	147	152					1105	1788
TOTAL NONCELLULOSIC YARN	**9618**	**10001**	**10415**	**9565**	**9565**	**9008**	**9780**	**10274**					**78226**	**83520**
NONCELLULOSIC STAPLE+TOW														
AUSTRIA	601	727	752	1321	296	481	506	867					5551	1297
AUSTRALIA	38	0	36	19	0	693	46	18					850	128
BELGIUM	35	0	18	18	634	0	18	193					916	164
BRAZIL	0	0	0	499	0	0	0	0					499	1673
CANADA	2003	2183	2981	2221	2797	1824	2353	2020					18382	20884
FRANCE	934	799	800	957	1257	934	826	1220					7727	5418
GERMANY, FED. REP. OF	2738	3040	2503	2478	3319	2475	2793	3377					22723	19271
INDIA	0	0	0	0	2575	2050	1556	2239					8420	1
IRELAND	80	123	162	325	422	240	362	201					1915	666
ITALY	130	362	145	241	5	37	44	190					1154	9613
JAPAN	1963	2057	1894	2166	1912	3095	1771	3016					17874	16115
KOREA, REP. OF	1355	1516	1456	1580	1295	1604	2058	1908					12772	7714
MALAYSIA	0	95	48	48	0	95	48	48					382	468
MEXICO	303	549	210	502	985	1043	822	800					5214	15309
ROMANIA	448	0	86	664	-230	893	0	0					2321	3327
SWITZERLAND	102	21	153	189	123	122	160	127					997	697
TAIWAN	1986	1109	1425	1112	1024	1384	549	1172					9761	15540
UNITED KINGDOM	1604	1503	2175	1920	1777	1745	1184	2046					13954	9802
ALL OTHER COUNTRIES [d]	22	30	12	85	0	19	146	283					597	846
TOTAL NONCELLULOSIC STAPLE+TOW	**14342**	**14114**	**14856**	**16345**	**18651**	**18734**	**15242**	**19725**					**132009**	**128933**

+ Less than 1 thousand pounds.

a. United Kingdom 122, Singapore 108, Morocco 71, France 65, Korea, Rep. of 51, Taiwan 19, Italy 7.

b. Austria 111, France 61, Australia 25, Germany, Fed. Rep. of 2, Luxembourg 2, Mexico 2, Belgium 1.

c. Spain 266, Chile 201, Sweden 102, Australia 145, Argentina 97, Norway 97, Turkey 81, Switzerland 61, Austria 33, China, PRC 11, Hong Kong 10, Vatican City 1, Egypt, Greece, India.

d. Gibraltar 259, Israel 93, New Caledonia 70, Netherlands 60, Finland 57, Hong Kong 39, Spain 8, China, PRC 6, Egypt 3, Portugal 2, Philippines.

TABLE 9:
U.S. EXPORTS OF MAN-MADE FIBER
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
FILAMENT YARN [a]															
TEXTURED	310.0004	27	2	6	31	61	5	11	59					202	362
OTHER [b]	310.0026	683	991	556	1220	1231	1269	582	1212					7744	3782
MONOFILAMENTS	309.0110	89	36	5	36	9	45	0	28					248	41
STRIPS	309.2210	0	23	0	0	10	2	0	1					36	71
SUBTOTAL ABOVE		**799**	**1052**	**567**	**1287**	**1311**	**1321**	**593**	**1300**					**8230**	**4256**
STAPLE+TOW-RAYON	309.4222	1019	1907	1702	1468	2682	2250	1615	2034					14677	25159
STAPLE-ACETATE	309.4219	89	66	309	329	146	97	209	126					1371	1033
SUBTOTAL ABOVE		**1108**	**1973**	**2011**	**1797**	**2828**	**2347**	**1824**	**2160**					**16048**	**26192**
WASTE, ADVANCED&NOT ADVANCED	309.7400	**143**	**251**	**198**	**86**	**263**	**42**	**432**	**235**					**1650**	**831**
NONCELLULOSIC FIBER															
YARN - SINGLES															
NYLON - TEXTURED	310.0005 & .0007	3651	4775	4929	3355	4209	4685	5391	3916					34911	22256
- HIGH TENACITY [c]	310.0027	8372	8470	8040	6580	6438	6533	8344	4836					57613	54868
- OTHER	310.0029	786	1111	904	1186	1068	819	1072	978					7924	5826
POLYESTER - TEXTURED	310.0010	1739	2796	3405	2979	3311	2690	2371	5279					24570	18054
- HIGH TENACITY [c]	310.0032	1421	1817	2189	2281	2706	2059	2534	2410					17417	17321
- OTHER [d]	310.0034	207	225	265	284	135	68	239	134					1557	1243
OTHER - TEXTURED	310.0014	1067	1904	2220	1725	2118	1459	1720	1640					13853	11338
- OLEFIN	310.0040	83	626	121	143	161	160	258	322					1874	480
- OTHER	310.0044	360	729	886	802	688	699	507	468					5139	4471
MONOFILAMENTS, ALL DENIERS															
NYLON	309.0120	658	728	515	983	523	623	289	649					4968	4382
POLYESTER	309.0140	1641	1789	2345	1784	1871	1713	1992	1990					15125	6655
OTHER	309.0170	680	901	768	769	847	603	553	705					5826	4819
STRIPS	309.2220 & .2270	415	192	277	442	454	394	346	377					2897	2971
SUBTOTAL ABOVE		**21080**	**26063**	**26864**	**23313**	**24529**	**22505**	**25616**	**23704**					**193674**	**154684**
STAPLE - NYLON	309.4240	2423	1511	1760	981	1387	1491	1575	2125					13253	14237
- POLYESTER	309.4242	13519	7586	10316	10132	11435	11625	13750	11140					89503	120733
- ACRYLIC	309.4245	17224	11389	16118	7723	12187	4510	8350	11085					88586	32707
- OLEFIN	309.4246	1488	1604	2696	2137	1784	1876	1683	561					13829	14962
- OTHER	309.4247	1228	1696	3193	1951	2312	2229	1358	2437					16404	26652
GROUPED FILAMENTS															
NYLON	309.3220	693	497	469	339	601	746	639	761					4745	3161
POLYESTER [d]	309.3240	2108	1330	2067	794	2046	1953	1230	1764					13292	13535
ACRYLIC	309.3250 & .3255	4967	2172	3809	2267	3498	2338	3049	1753					23853	16253
SUBTOTAL ABOVE		**43650**	**27785**	**40428**	**26324**	**35250**	**26768**	**31634**	**31626**					263465	242240
WASTE, ADVANCED&NOT ADVANCED															
- NYLON	309.7620	685	1210	1189	1492	1287	2199	1489	1661					11212	7866
- POLYESTER	309.7630	3959	4435	6616	4231	4813	5219	3829	6994					40096	37154
- ACRYLIC	309.7640	312	1219	923	676	970	795	671	597					6163	6692
- OTHER	309.7660	3765	3582	3138	3474	3605	3309	3019	3970					27862	22379
SUBTOTAL ABOVE		**8721**	**10446**	**11866**	**9873**	**10675**	**11522**	**9008**	**13222**					**85333**	**74091**
TOTAL MAN-MADE ABOVE		**75501**	**67570**	**81934**	**62680**	**74856**	**64505**	**69107**	**72247**					**568400**	**502294**
GLASS FIBER	309.2700 & .9700	8813	9352	9114	8934	7139	8164	9712	9075					70303	56639
GRAND TOTAL ABOVE		**84314**	**76922**	**91048**	**71614**	**81995**	**72669**	**78819**	**81322**					**638703**	**558933**

SOURCE: U.S. Census Bureau Report EM522.
- + Less than 1 thousand pounds.
- **a.** Includes singles and plied yarn.
- **b.** Includes rayon tire cord.
- **c.** Includes noncellulosic tire cord.
- **d.** Includes zero twist yarns.

TABLE 10:
U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/87	1988												YEAR TO DATE	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
CELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	0	+	0	64	18	16	61	56					215	290
OTHER	310.0130 & .0230[a]	1362	1468	1021	995	1210	1412	1173	1318					9959	6885
MONOFILAMENTS	309.0310 & .0610	0	+	0	1	1	0	0	3					5	5
STRIPS, $1/LB & UNDER	309.2000*	11	62	107	72	97	138	0	153					640	120
SUBTOTAL ABOVE		**1373**	**1530**	**1128**	**1132**	**1326**	**1566**	**1234**	**1530**					**10819**	**7300**
STAPLE	309.4320 & .4325	1182	888	1107	934	1354	1492	1406	2123					10486	9301
GROUPED FILAMENTS	309.3010 & .3310	122	0	111	14	134	151	226	137					895	587
SUBTOTAL ABOVE		**1304**	**888**	**1218**	**948**	**1488**	**1643**	**1632**	**2260**					**11381**	**9888**
WASTE, ADVANCED&NOT ADVANCED	309.6615 & .7510	0	+	0	0	0	0	0	0					+	28
NONCELLULOSIC FIBER															
YARN - SINGLES															
TEXTURED - NYLON															
LESS THAN 450 DENIER	310.0107 & .0207	341	297	204	271	150	176	175	235					1849	1254
450 DENIER AND OVER	310.0108 & .0208	1503	1643	1531	2018	1472	1080	1980	1970					13197	18976
- POLYESTER	310.0110 & .0210	989	1368	1024	881	1327	1749	1033	1116					9487	10205
- OTHER	310.0114 & .0214	2158	1830	2815	1920	1882	1811	2313	1978					16707	15075
OTHER - NYLON	310.0149 & .0249	1154	1567	1602	1249	1672	1267	1216	1782					11509	16059
- POLYESTER	310.0150 & .0250	2153	1631	1734	1657	1707	1719	1981	1964					14546	13251
- OTHER	310.0170 & .0270[b]	762	1085	876	922	469	453	418	493					5478	4639
MONOFILAMENTS	309.0200 & .0330[c]	381	384	307	374	454	483	380	459					3222	2371
STRIPS, OVER $1/LB	309.2100 & .2500*	177	196	322	273	432	270	284	277					2231	1690
SUBTOTAL ABOVE		**9618**	**10001**	**10415**	**9565**	**9565**	**9008**	**9780**	**10274**					**78226**	**83520**
STAPLE - NYLON	309.4331 & .4351	1696	1306	1915	2115	1707	1284	1468	1724					13215	28862
- POLYESTER	309.4336 & .4361	4653	5670	4716	4932	7498	8268	6130	8251					50118	47611
- ACRYLIC	309.4366	1214	953	1179	1399	1647	1377	1257	1513					10539	10477
- OLEFIN	309.4371	83	104	534	498	165	174	40	99					1697	362
- OTHER	309.4341 & .4390	1350	1625	1750	2008	969	1907	1239	1632					12480	8525
GROUPED FILAMENTS															
NYLON	309.3030 & .3200	3713	2877	3289	3284	4091	3619	3596	3785					28254	20901
POLYESTER	309.3040 & .3340	441	215	65	421	305	376	426	701					2950	2225
ACRYLIC	309.3050 & .3350	1086	1331	1249	1664	1631	1698	992	1855					11506	8668
OTHER	309.3065 & .3365	106	33	159	24	638	31	94	165					1250	1302
SUBTOTAL ABOVE		**14342**	**14114**	**14856**	**16345**	**18651**	**18734**	**15242**	**19725**					**132009**	**128933**
WASTE, NOT ADVANCED															
- NYLON	309.6625	2940	1991	1933	1842	2391	2267	1716	1344					16424	18213
- POLYESTER	309.6630	550	487	1073	637	470	1233	716	500					5666	6867
- ACRYLIC	309.6645	0	0	21	110	0	2	0	0					133	203
- OTHER	309.6660	221	273	392	157	271	260	101	241					1916	3525
NOILS & GARNETTED FIBERS	309.7000*	80	0	0	33	0	0	0	0					113	31
OTHER WASTE, ADVANCED	309.7525 - .7555	596	596	637	323	366	280	286	435					3519	3558
SUBTOTAL ABOVE		**4387**	**3347**	**4056**	**3102**	**3498**	**4042**	**2819**	**2520**					**27771**	**32397**
TOTAL MAN-MADE ABOVE		**31024**	**29880**	**31673**	**31092**	**34528**	**34993**	**30707**	**36309**					**260206**	**262066**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1506	0	0	+	0	0	0	0	0					+	2
- NONCELLULOSIC	310.1015[d] & .1205[e]	340	110	184	216	276	176	197	156					1655	2947
OTHER - CELLULOSIC	310.1030 & .1535[f]	15	21	5	34	19	22	15	42					173	388
- NONCELLULOSIC	310.1050 & .1070[g]	276	262	305	289	338	303	255	321					2349	2155
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	62	95	137	23	94	74	112	46					643	1152
- OTHER	310.4015 & .4027[i]	2503	1471	1826	1155	2219	2781	174	1751					13880	27500
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	2122	1933	1143	1956	1629	1099	2762	997					13641	17155
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	607	197	1714	585	661	789	600	556					5709	5897
SLIVER, TOPS & ROVING	309.9000	271	287	351	530	234	181	359	398					2611	4010
GLASS FIBER	309.2800 & .2900[k]	2526	2716	404	2483	2271	2344	2110	2469					17323	17658
GRAND TOTAL ABOVE		**39746**	**36972**	**37742**	**38363**	**42269**	**42762**	**37291**	**43045**					**318190**	**340930**

SOURCE: U.S. Census Bureau Report IM145X.

NES Not elsewhere specified.

+ Less than 1 thousand pounds.

* These items are not reported by the Census Bureau as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210.

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, 1555, .1570, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 11:
U.S. EXPORTS OF MAN-MADE FIBERS

ITEM	COMMODITY NUMBER AS OF 1/1/87	THOUSAND POUNDS					THOUSAND DOLLARS				
		1984	1985	1986	1987	6 MOS 1988	1984	1985	1986	1987	6 MOS 1988
CELLULOSIC FIBERS											
FILAMENT YARN [a]											
TEXTURED	310.0004	129	101	102	614	132	337	298	242	1323	335
OTHER [b]	310.0026	8614	10412	7002	5428	5950	10051	13859	9207	7768	8410
MONOFILAMENTS	309.0110	12	79	228	285	220	66	178	651	413	457
STRIPS	309.2210	79	37	14	100	35	85	44	16	96	29
SUBTOTAL ABOVE		**8834**	**10629**	**7346**	**6427**	**6337**	**10539**	**14379**	**10116**	**9600**	**9231**
STAPLE+TOW-RAYON	309.4222	53882	35975	30887	32781	11028	37688	25546	21840	23369	8351
STAPLE-ACETATE	309.4219	2090	1849	1679	1721	1036	2337	2535	2182	2487	1305
SUBTOTAL ABOVE		**55972**	**37824**	**32566**	**34502**	**12064**	**40025**	**28081**	**24022**	**25856**	**9656**
WASTE, ADVANCED&NOT ADVANCED	309.7400	1632	1207	2222	1090	983	1062	801	1822	939	381
NONCELLULOSIC FIBERS											
YARN - SINGLES											
NYLON - TEXTURED	310.005 & .0007	32268	26894	24403	35048	25604	50916	39982	42863	64400	47798
- HIGH TENACITY [c]	310.0027	66732	69386	76870	78107	44433	62515	72294	81880	88840	59777
- OTHER	310.0029	13155	9357	10333	9142	5874	28217	19373	23099	22983	15180
POLYESTER - TEXTURED	310.0010	79753	135997	68753	25057	16920	93889	140792	69534	28774	21717
- HIGH TENACITY [c]	310.0032	9156	32137	23862	24961	12473	11064	29618	27087	29829	16127
- OTHER [d]	310.0034	5968	8934	2347	1794	1184	8371	9270	2410	2567	2032
OTHER - TEXTURED	310.0014	7673	10495	21122	18119	10493	12040	14470	27888	29402	15571
- OLEFIN	310.0040	340	555	1708	940	1294	485	766	1740	1087	1322
- OTHER	310.0044	5261	7766	6084	6799	4164	26909	32505	35562	40240	24585
MONOFILAMENTS, ALL DENIERS											
NYLON	309.0120	2848	2364	5116	6663	4030	10435	9221	12901	16246	9379
POLYESTER	309.0140	3794	5759	6256	12294	11143	10141	14128	13387	21050	18682
OTHER	309.0170	11047	11955	4775	7453	4568	22912	17491	20821	33736	21956
STRIPS	309.2220 & .2270	4460	4204	3943	4805	2174	11398	13903	12945	18837	7360
SUBTOTAL ABOVE		**242455**	**325803**	**255572**	**231182**	**144354**	**349292**	**413813**	**372117**	**397991**	**261486**
STAPLE - NYLON	309.4240	14904	11100	15037	23447	9553	21685	13854	17288	24690	11509
- POLYESTER	309.4242	178903	176697	111270	168127	64613	116843	112222	68239	90039	41448
- ACRYLIC	309.4245	162285	150729	58397	67074	69151	114377	100146	40763	47571	49387
- OLEFIN	309.4246	4368	6974	14623	21433	11585	4088	5754	12670	17842	10005
- OTHER	309.4247	8555	10695	17410	35295	12609	30566	35401	57209	77415	38316
GROUPED FILAMENTS											
NYLON	309.3220	3048	1948	3701	5483	3345	8947	4635	9480	12681	7116
POLYESTER [d]	309.3240	23693	29155	21511	20573	10298	20749	23335	18135	18148	11663
ACRYLIC	309.3250 & .3255	33807	29214	21965	24497	19051	27202	24095	19498	19459	14760
SUBTOTAL ABOVE		**429563**	**416512**	**263914**	**365929**	**200205**	**344457**	**319442**	**243282**	**307845**	**184204**
WASTE, ADVANCED&NOT ADVANCED											
- NYLON	309.7620	12465	5601	8855	11686	8062	6494	3048	4441	6047	4093
- POLYESTER	309.7630	57371	46404	59265	56412	29273	22417	17722	24245	25423	13956
- ACRYLIC	309.7640	4620	4804	6399	9569	4895	1365	1286	1372	3045	2187
- OTHER	309.7660	15203	18836	49177	35860	20873	6385	6818	15315	12710	8099
SUBTOTAL ABOVE		**89659**	**75645**	**123696**	**113527**	**63103**	**36661**	**28874**	**45373**	**47225**	**28335**
TOTAL MAN-MADE ABOVE		**828115**	**867620**	**685316**	**752657**	**427046**	**782036**	**805390**	**696732**	**789456**	**493293**
GLASS FIBER	309.2700 & .9700	58101	58328	61160	85378	51516	56385	57787	66134	95496	58189
GRAND TOTAL ABOVE		**886216**	**925948**	**746476**	**838035**	**478562**	**838421**	**863177**	**762866**	**884952**	**551482**

SOURCE: U.S. Census Bureau Report EM546.

a. Includes singles and plied yarn.

b. Includes rayon tire cord.

c. Includes noncellulosic tire cord.

d. Includes zero twist yarns.

TABLE 12:
U.S. IMPORTS OF MAN-MADE FIBERS

ITEM	COMMODITY NUMBER AS OF 1/1/87	THOUSAND POUNDS					THOUSAND DOLLARS				
		1984	1985	1986	1987	6 MOS. 1988	1984	1985	1986	1987	6 MOS. 1988
CELLULOSIC FIBERS											
YARN - SINGLES											
TEXTURED	310.0106 & .0206	1571	190	518	305	98	940	267	610	511	231
OTHER	310.0130 & .0230[a]	8245	12951	15669	12267	7468	12924	19129	24795	19226	13316
MONOFILAMENTS	309.0310 & .0610	5	19	20	12	2	20	44	68	77	7
STRIPS, $1/LB & UNDER	309.2000*	160	763	756	227	487	88	624	646	196	378
SUBTOTAL ABOVE		**9981**	**13923**	**16963**	**12811**	**8055**	**13972**	**20064**	**26119**	**20010**	**13932**
STAPLE	309.4320 & .4325	15388	11286	16453	12931	6957	10320	6844	12678	11128	5373
GROUPED FILAMENTS	309.3010 & .3310	1605	1022	975	893	532	2619	1471	1305	1600	728
SUBTOTAL ABOVE		**16993**	**12308**	**17428**	**13824**	**7489**	**12939**	**8315**	**13983**	**12728**	**6101**
WASTE, ADVANCED&NOT ADVANCED	**309.6615 & .7510**	**530**	**479**	**121**	**85**	**+**	**323**	**263**	**79**	**25**	**10**
NONCELLULOSIC FIBERS											
YARN - SINGLES											
TEXTURED - NYLON											
LESS THAN 450 DENIER	310.0107 & .0207	17966	32352	2601	2035	1439	26141	35244	5025	4170	2728
450 DENIER AND OVER	310.0108 & .0208			33994	26755	9247			37305	29921	11015
- POLYESTER	310.0110 & .0210	10806	16642	14590	15580	7338	10513	14653	13029	15403	7313
- OTHER	310.0114 & .0214	8939	14723	20477	24088	12416	10536	15732	20187	23874	12719
OTHER - NYLON	310.0149 & .0249	30192	18350	22521	22839	8511	39222	23747	30781	36679	13982
- POLYESTER	310.0150 & .0250	15698	16728	22465	19425	10601	21121	20624	28831	25656	14112
- OTHER	310.0170 & .0270[b]	2468	2520	5130	6777	4567	4139	4203	7837	8804	6265
MONOFILAMENTS	309.0200 & .0330[c]	2857	2059	2722	3804	2383	8817	5537	8197	12236	8963
STRIPS, OVER $1/LB	309.2100 & .2500*	1066	1187	1557	2627	1670	5844	5886	6487	8601	5564
SUBTOTAL ABOVE		**89992**	**104561**	**126057**	**123930**	**58172**	**126333**	**125626**	**157679**	**165344**	**82661**
STAPLE - NYLON	309.4331 & .4351	38281	38544	51959	38955	10023	36579	34292	26229	42829	11873
- POLYESTER	309.4336 & .4361	22890	26800	40785	70721	35737	13272	15841	13456	40278	21928
- ACRYLIC	309.4366	13541	17611	17442	15716	7769	12568	16396	7799	13096	8887
- OLEFIN	309.4371	2213	5732	1871	514	1558	1630	3879	289	400	562
- OTHER	309.4341 & .4390	15412	25516	14238	12992	9609	11326	21283	4258	12810	12049
GROUPED FILAMENTS											
NYLON	309.3030 & .3200	23129	29514	38536	32248	20873	33524	40769	58505	50546	33096
POLYESTER	309.3040 & .3340	7104	4980	2354	3139	1823	6569	4715	2392	3767	2136
ACRYLIC	309.3050 & .3350	6929	7518	13065	13000	8659	15116	16548	31792	31152	21662
OTHER	309.3065 & .3365	1660	3231	2540	1700	991	2371	4313	3339	2991	1124
SUBTOTAL ABOVE		**131159**	**159446**	**182790**	**188985**	**97042**	**132955**	**158036**	**148059**	**197869**	**113317**
WASTE, NOT ADVANCED											
- NYLON	309.6625	31205	27162	22377	26926	13364	13876	10793	7755	8412	4421
- POLYESTER	309.6630	8042	7149	6304	9170	4450	1325	1143	878	1385	739
- ACRYLIC	309.6645	39	283	328	306	133	8	48	182	70	41
- OTHER	309.6660	4074	2072	8442	4666	1574	2027	607	2142	895	320
NOILS & GARNETTED FIBERS	309.7000*	458	155	164	162	113	254	101	123	83	52
OTHER WASTE, ADVANCED	309.7525 - .7555	6729	3852	2688	5727	2798	1912	890	702	1894	691
SUBTOTAL ABOVE		**50547**	**40673**	**40303**	**46957**	**22432**	**19402**	**13582**	**11782**	**12739**	**6264**
TOTAL MAN-MADE ABOVE		**299202**	**331390**	**383662**	**386592**	**193190**	**305924**	**325886**	**357701**	**408715**	**222285**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD											
YARN - PLIED											
TEXTURED - CELLULOSIC	310.1506	1	1	1	5	+	7	7	15	44	+
- NONCELLULOSIC	310.1015[d] & .1205[e]	12223	9270	10221	3999	1302	17370	9955	11926	6471	2642
OTHER - CELLULOSIC	310.1030 & .1535[f]	173	390	478	553	116	723	937	1932	2622	1699
- NONCELLULOSIC	310.1050 & .1070[g]	2763	4032	4857	3314	1773	4447	6795	10007	7441	4623
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	1724	1739	1879	1541	485	2224	2100	3105	3199	1251
- OTHER	310.4015 & .4027[i]	35583	34260	44691	37128	11955	58127	54897	75910	68943	24059
OTHER YARNS - NES, INCL. CHENILLE	310.6034 - .8000	7517	8912	16759	28029	9882	16210	15640	28555	46150	18165
HANDWORK YARNS & SEWING THREAD	310.9000 & .9310[j]	5445	9283	4593	8338	4553	18111	28952	13846	31339	15259
SLIVER, TOPS & ROVING	309.9000	4544	1941	3298	5537	1854	4792	2334	4467	7085	3211
GLASS FIBER	309.2800 & .2900[k]	23083	34690	24404	29465	12744	19203	27850	23082	29283	15332
GRAND TOTAL ABOVE		**392258**	**435908**	**494843**	**504501**	**237854**	**447138**	**475353**	**530546**	**611292**	**308526**

Source: U.S. Census Bureau Report IM146.

NES - Not elsewhere specified.

* These items are not reported by the Census Bureau as cellulosic vs. noncellulosic. Separation of cellulosic and noncellulosic quantities are estimated, based primarily on average declared value.

a. Also includes 310.0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1210

f. Also includes 310.2110.

g. Also includes 310.1510, .1514, .1550, .1555, .1570, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Also includes 310.9320 & .9500.

k. Chiefly roving. Also includes 309.9800 & .9900.

TABLE 13:
SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION
THOUSAND POUNDS

COUNTRY	A. CELLULOSIC YARN, MONOFIL & STRIPS			B. NONCELLULOSIC TEXTILE YARN			C. NC INDUSTRIAL YARN, MONOFIL & STRIPS			D. CELLULOSIC STAPLE+TOW			E. NONCELLULOSIC STAPLE+TOW		
	1986	1987	6 MOS. 1988	1986	1987	6 MOS. 1988	1986	1987	6 MOS. 1988	1986	1987	6 MOS. 1988	1986	1987	6 MOS. 1988
AUSTRIA	0	0	0	13	0	0	29	5	77	5	1	0	32	20	47
BELGIUM/ LUXEMBOURG	1186	678	623	8504	8684	5836	14994	28638	15182	909	1169	628	9450	12218	4630
DENMARK	0	0	0	657	913	428	139	43	86	9	10	0	4192	664	667
FINLAND	0	0	0	31	223	83	757	520	523	1	1	0	184	233	275
FRANCE	8	21	38	2546	2328	1656	320	723	694	171	169	84	685	1841	1853
GERMANY, FED. REP. OF	55	157	42	1112	1328	768	7685	1890	711	144	133	78	2667	4211	2046
GREECE	0	13	0	21	27	0	15	13	0	0	20	0	154	95	0
ICELAND	0	0	0	0	0	0	0	0	0	0	0	0	95	221	119
IRELAND	0	0	0	973	100	0	663	772	0	0	0	0	444	875	0
ITALY	1	+	0	744	935	427	1376	2860	992	84	42	0	6509	9881	7198
NETHERLANDS	50	0	3	938	1196	566	303	1408	361	15	22	0	4693	4291	3516
NORWAY	0	0	0	393	71	51	296	428	34	76	41	30	171	241	168
PORTUGAL	0	20	0	620	160	122	255	70	2	0	0	0	0	0	32
SPAIN	0	25	0	963	2088	0	341	241	0	16	11	0	5832	5040	0
SWEDEN	0	0	3	333	244	97	479	1823	1063	28	26	8	1097	1540	897
SWITZERLAND	0	0	0	789	55	350	537	182	493	11	36	7	2798	5150	1995
TURKEY	1	0	0	33	796	0	27338	28777	0	87	0	0	4606	7609	0
UNITED KINGDOM	41	39	0	4259	4897	0	3892	6370	0	1599	269	0	1898	4098	0
OTHER	0	0	19	0	0	21	0	1	4	0	0	0	4	0	0
TOTAL WESTERN EUROPE	**1342**	**953**	**728**	**22929**	**24045**	**10405**	**59419**	**74764**	**20222**	**3155**	**1950**	**835**	**45511**	**58228**	**23443**
CZECHOSLOVAKIA	0	0	0	0	0	0	19	546	1477	0	0	0	0	450	400
GERMANY, DEM. REP.	0	0	0	1	0	1	0	0	0	0	0	0	7	0	0
HUNGARY	0	63	378	71	0	+	0	0	0	0	0	0	0	0	0
POLAND	0	0	0	110	387	459	2542	1400	1	203	662	0	5689	7566	8524
U.S.S.R.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YUGOSLAVIA	0	0	0	1	0	0	1937	549	0	0	0	0	647	0	0
OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL EASTERN EUROPE	**0**	**63**	**378**	**183**	**387**	**460**	**4498**	**2495**	**1478**	**203**	**662**	**0**	**6343**	**8016**	**8924**
ARGENTINA	19	32	2252	201	248	1696	130	249	1823	144	93	8	323	455	37559
BOLIVIA	0	67	0	118	126	30	44	9	5	0	0	0	321	670	34
BRAZIL	132	175	33	1586	1531	455	1474	1027	848	66	255	3	1226	637	438
CANADA	3719	2745	1084	18905	28718	19684	9320	10325	6005	323	950	225	58730	88387	41990
CHILE	6	0	3	509	129	27	214	143	87	2059	1660	129	13893	13957	8489
COLOMBIA	0	25	0	884	406	91	520	1440	1181	4215	3508	869	13909	19496	2350
COSTA RICA	0	3	0	6454	3717	0	380	35	0	107	37	0	1687	2967	0
DOMINICAN REPUBLIC	2	156	23	1642	1936	3103	294	48	195	22	0	4	526	790	2918
ECUADOR	170	172	0	1205	571	380	75	139	17	67	686	59	8869	8828	4516
EL SALVADOR	2	0	0	4873	758	3	729	1215	94	241	43	453	4488	3689	2697
GUATEMALA	0	21	0	1647	1555	901	151	38	1	0	0	119	2496	6769	2893
HAITI	0	1	0	202	272	74	713	737	0	6	1	3	9	6	0
HONDURAS	0	0	0	1688	556	71	85	20	10	4	3	0	386	2167	1123
JAMAICA	5	0	0	476	441	175	17	14	7	0	0	0	1	43	30
LEEWARD & WINDWARD ISL.	0	0	0	27	0	+	1	0	0	0	0	0	9	5	1
MEXICO	205	50	97	675	1737	1102	1381	2223	2086	9926	9142	7219	16576	22341	7298
NICARAGUA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PANAMA	0	0	0	159	155	0	126	133	0	0	0	0	94	60	0
PARAGUAY	0	0	0	9	0	0	0	1	0	0	0	0	9	0	0
PERU	4	5	0	167	196	63	1423	536	111	137	429	20	482	451	0
TRINIDAD	0	0	0	1	2	22	6	52	2	0	0	0	8	8	2
URUGUAY	0	169	0	175	94	44	6	3	1	0	34	0	371	499	349
VENEZUELA	7	23	6	2254	1201	716	435	153	437	8346	7808	1084	4116	4486	599
OTHER	0	0	0	18	90	2406	9	5	16121	+	4	6	38	19	3544
TOTAL OTHER AMERICAS	**4271**	**3644**	**3498**	**43875**	**44439**	**31043**	**17533**	**18545**	**29031**	**25663**	**24653**	**10201**	**128569**	**176730**	**116830**

See footnotes opposite.

TABLE 13:
SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION *(CONTINUED)*
THOUSAND POUNDS

COUNTRY	A. CELLULOSIC YARN, MONOFIL & STRIPS			B. NONCELLULOSIC TEXTILE YARN			C. NC INDUSTRIAL YARN, MONOFIL & STRIPS			D. CELLULOSIC STAPLE+TOW			E. NONCELLULOSIC STAPLE+TOW		
	1986	1987	6 MOS. 1988	1986	1987	6 MOS. 1988	1986	1987	6 MOS. 1988	1986	1987	6 MOS. 1988	1986	1987	6 MOS. 1988
BANGLADESH	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
HONG KONG	13	5	4	754	600	319	290	361	320	101	37	10	8873	9312	6304
INDIA	104	140	85	485	231	87	2346	2808	1624	97	52	101	2971	2366	805
INDONESIA	0	0	0	113	0	0	5041	3091	0	0	0	0	759	586	0
KOREA, REP. OF	0	37	0	389	381	0	785	1062	0	0	133	0	8889	19042	0
MALAYSIA	1	0	13	0	4	0	1	0	10	0	0	33	15	52	275
PAKISTAN	0	19	0	21	347	264	44	42	0	0	37	0	430	1434	345
PHILIPPINES	10	8	10	200	470	54	925	1593	521	5	7	5	4634	5212	2836
SINGAPORE	1	0	0	5	339	1	526	216	482	1	40	3	292	599	96
TAIWAN	2	262	644	787	1782	246	4567	3366	2051	309	969	294	13108	13198	13212
THAILAND	100	56	0	22	48	87	199	[illegible]	160	0	0	0	1948	11698	2249
TOTAL OTHER ASIA	**231**	**527**	**756**	**2776**	**4202**	**1058**	**14724**	**12838**	**5168**	**513**	**1275**	**446**	**41919**	**63501**	**26122**
CHINA, PRC	**0**	**417**	**0**	**44600**	**760**	**0**	**60**	**3**	**0**	**2511**	**5375**	**0**	**20012**	**39144**	**0**
JAPAN	**3**	**88**	**47**	**2421**	**3732**	**3884**	**12687**	**15050**	**10206**	**207**	**412**	**88**	**4002**	**4215**	**3607**
ALGERIA	0	0	0	0	0	82	2	0	0	0	0	13	0	1	0
AUSTRALIA	1303	392	325	8524	8222	5979	1569	1542	1051	201	145	51	3678	6476	4276
CAMEROON	0	0	0	80	132	67	0	0	0	0	0	0	0	0	0
EGYPT	0	0	0	1583	1611	132	869	88	150	0	0	0	6955	4708	262
IRAQ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ISRAEL	70	10	54	3187	3055	704	7556	7913	3082	9	3	3	1853	2158	330
JORDAN	0	57	0	85	1	25	0	0	0	0	0	0	0	0	0
KENYA	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
LEBANON	0	28	0	0	78	196	308	123	151	0	0	0	0	0	0
MOROCCO	0	0	0	913	1064	1168	808	0	13	0	0	0	1663	507	0
MOZAMBIQUE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NEW ZEALAND	0	6	7	975	2273	556	419	313	102	12	+	0	485	406	271
NIGERIA	28	0	0	1744	111	111	0	10	9	42	0	0	69	567	308
QATAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SAUDI ARABIA	0	0	0	3	86	749	15	45	24	0	0	0	149	589	258
SOUTH AFRICA	34	190	36	219	415	649	32	37	52	50	27	3	2460	320	1334
SUDAN	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
SYRIA	64	52	0	426	2170	2360	164	254	159	0	0	0	48	12	0
TANZANIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TUNISIA	0	0	0	54	0	68	0	231	1	0	0	0	0	0	0
UNITED ARAB EMIRATES	0	0	0	0	0	0	1	0	0	0	0	0	6	0	0
ZAMBIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIMBABWE	0	0	0	21	9	0	0	0	0	0	0	0	19	341	0
OTHER	0	0	508	152	107	5837	158	32	7922	0	0	424	172	8	14240
TOTAL M.E., A., & O..	**1499**	**735**	**930**	**17966**	**19334**	**18683**	**11901**	**10588**	**12716**	**314**	**175**	**494**	**17558**	**16094**	**21279**
GRAND TOTAL	**7346**	**6427**	**6337**	**134750**	**96899**	**65533**	**120822**	**134283**	**78821**	**32366**	**34502**	**12064**	**263914**	**365929**	**200205**

SOURCE: U.S. Census Bureau Report EM546.

+ Less than 1 thousand pounds.

The commodity numbers are :

A. 309.0110, .2210, 310.0006 & .0026.

B. 310.0008, .0009, .0010, .0014, .0029, .0034, .0040 & .0044.

C. 309.0120, .0140, .0170, .2220, .2270, 310.0027 & .0032.

D. 309.4219 & .4222.

E. 309.3220, .3240, .3250, .3255, .4240, .4242, .4245, .4246 & .4247.

TABLE 14:
FILAMENT YARN DOMESTIC SHIPMENTS[a]

MILLION POUNDS

		ANNUAL DATA				QUARTERLY DATA							
						1987				1988			
ITEM		1984	1985	1986	1987	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(C) CELLULOSIC YARN[j]			*(N) NYLON*				*(P) POLYESTER*				*(O) OLEFIN*		
HOSIERY[b]	N	101.5	98.1	95.1	93.2	23.6	23.5	23.8	22.3	23.1	24.9		
OTHER CIRCULAR KNIT[c]	N	17.6	12.9	21.3	25.3	7.7	7.0	6.1	4.5	7.1	6.4		
	P	174.7	151.2	150.3	102.8	21.1	28.8	27.3	25.6	25.6	28.2		
	C	2.3	2.6	2.0	1.1	0.4	0.3	0.2	0.2	0.2	0.2		
FLAT KNIT	C	67.2	53.0	47.8	27.9	8.7	8.1	5.0	6.1	5.7	7.7		
	N	135.2	143.6	133.8	131.4	32.0	32.6	33.2	33.6	31.2	33.1		
	P	137.3	160.8	167.1	162.5	37.5	40.6	41.3	43.1	39.2	43.0		
CARPET FACE	N	770.2	815.4	881.4	916.0	228.5	235.4	246.1	206.0	228.2	233.8		
	O	154.1	202.1	215.7	244.5	58.4	60.8	63.0	62.3	65.1	77.3		
CARPET BACKING[d]	O	227.8	354.6	404.1	425.3	98.1	106.9	110.2	110.1	107.9	103.6		
OTHER BROAD WOVEN[e]	C	108.8	111.3	126.3	122.8	26.3	31.7	31.4	33.4	31.0	35.2		
	N	90.7	71.4	76.2	79.4	17.7	19.6	21.4	20.7	20.3	17.6		
	P	392.2	420.1	344.4	379.4	94.7	97.0	91.8	95.9	89.8	95.5		
	O	190.3	225.7	271.5	317.7	68.9	77.1	80.3	91.4	84.9	83.7		
NARROW WOVEN[f]	C	0.7	1.5	2.0	2.2	0.4	0.4	0.4	1.0	1.5	1.1		
	N	39.9	31.1	33.9	42.1	10.2	11.3	10.6	10.0	11.1	11.1		
	P	38.7	40.0	44.0	66.2	12.7	17.1	18.7	17.7	15.2	18.9		
	O	14.9	15.2	17.5	17.7	4.1	3.6	4.6	5.4	4.7	4.8		
TIRES, INCL. CHAFER[g]	N	172.9	146.0	134.2	143.0	38.8	32.5	35.9	35.8	34.8	33.1		
	P	174.4	155.5	159.3	162.8	40.1	40.5	40.9	41.3	41.3	44.2		
OTHER RUBBER INDUSTRY[c g]	N	20.9	15.3	15.2	16.4	3.8	4.4	4.0	4.2	6.1	4.7		
	P	32.7	31.2	27.2	34.5	8.6	8.8	8.7	8.4	6.7	6.2		
ROPE, CORDAGE & FISHLINE	N	35.0	35.3	36.4	37.9	9.2	9.8	10.4	8.5	9.7	9.7		
	P	15.7	13.8	13.0	13.4	3.4	3.1	3.5	3.4	3.7	3.1		
	O	106.9	108.2	106.3	106.7	25.0	28.2	24.5	29.0	27.9	25.5		
ALL OTHER[h]	C	1.1	18.7	14.0	12.8	3.4	3.1	3.2	3.1	3.0	3.1		
	N	54.2	48.3	52.1	69.6	17.8	18.7	14.3	18.8	16.8	21.1		
	P	179.2	231.7	187.1	191.8	48.7	49.3	48.6	45.2	45.2	52.8		
	O	31.6	31.8	34.1	23.6	7.0	5.2	4.9	6.5	7.8	7.6		
TOTAL ABOVE	**C**	**180.1**	**187.1**	**192.1**	**166.8**	**39.2**	**43.6**	**40.2**	**43.8**	**41.4**	**47.3**		
	N	**1438.1**	**1417.4**	**1479.6**	**1554.3**	**389.3**	**394.8**	**405.8**	**364.4**	**388.4**	**395.5**		
	P	**1144.9**	**1204.2**	**1092.4**	**1113.4**	**266.8**	**285.2**	**280.8**	**280.6**	**266.7**	**291.9**		
	O	**725.6**	**937.6**	**1049.2**	**1135.5**	**261.5**	**281.8**	**287.5**	**304.7**	**298.3**	**302.5**		
TOTAL DOMESTIC		**3488.7**	**3746.3**	**3813.3**	**3970.0**	**956.8**	**1005.4**	**1014.3**	**993.5**	**994.8**	**1037.2**		
ALSO DIVIDED AS													
APPAREL		*1072.1*	*1064.7*	*949.4*	*932.3*	*225.7*	*248.1*	*230.6*	*227.9*	*223.0*	*237.0*		
HOME FURNISHINGS		*1354.2*	*1624.9*	*1746.8*	*1836.3*	*442.0*	*467.1*	*482.5*	*444.7*	*463.0*	*485.0*		
INDUSTRIAL		*1062.4*	*1056.7*	*1117.1*	*1201.4*	*289.1*	*290.2*	*301.2*	*320.9*	*308.8*	*315.2*		
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET)[i]													
NYLON		118.7	114.9	115.8	NA	NA	NA	NA	NA	NA	NA		
POLYESTER		675.5	776.3	634.6	626.3	149.3	165.8	156.1	155.1	146.7	159.2		
OLEFIN		23.3	22.3	22.9	26.6	6.1	6.9	6.0	7.6	6.4	6.4		

NA No longer available.

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small quantities of polyester and cellulosic yarn are included in All Other.

c. Small quantities of olefin are included in All Other.

d. Small quantities of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Cellulosic yarn quantities included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin quantities include sliver knit backing. Also includes indirect exports.

i. These quantities are included in the Total Domestic area above.

j. Data for 1984 contain acetate yarn only. Data for 1985-1988 contain acetate and rayon yarn.

TABLE 15:
STAPLE+TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1987				1988			
ITEM		1984	1985	1986	1987	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(R) RAYON (N) NYLON (A) ACRYLIC+MODACRYLIC (P) POLYESTER (O) OLEFIN													
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	204.8	197.2	228.8	192.4	57.0	51.4	44.6	39.4	47.5	46.7		
	NPR	6.6	5.5	5.1	3.5	0.8	0.8	0.9	1.0	0.8	0.7		
PILE FABRICS[b]	A	30.0	24.5	23.2	20.8	5.6	5.7	5.1	4.4	5.0	5.7		
	P	18.4	14.9	15.0	19.7	4.4	5.1	6.2	4.0	3.9	3.6		
OTHER CIRCULAR KNIT + FLAT KNIT[c]	R	4.3	5.5	4.7	3.7	1.2	1.3	0.6	0.6	0.5	0.3		
	A	118.5	139.1	196.3	185.1	55.7	53.8	42.9	32.7	37.8	39.6		
	P	283.0	295.5	367.8	453.3	115.2	117.6	106.3	114.2	109.9	112.6		
BLANKETS[b]	A	25.2	30.2	26.7	25.7	5.9	6.6	7.6	5.6	6.4	5.6		
	P	5.5	6.2	3.7	9.2	1.3	1.8	2.8	3.3	1.8	1.4		
OTHER BROAD WOVEN	R	177.7	174.9	218.0	230.7	52.9	55.2	59.9	62.7	58.7	60.5		
	N	42.5	37.4	37.0	38.7	9.2	8.1	11.1	10.3	8.1	7.9		
	A	29.5	38.2	35.3	41.7	9.9	10.9	10.1	10.8	10.4	9.6		
	P	1039.1	864.9	885.6	839.2	205.3	218.1	202.9	212.9	216.0	212.8		
	O	22.1	26.9	18.0	20.2	4.8	4.7	5.5	5.2	4.6	3.8		
CARPET FACE YARNS[f]	R	0.3	0.5	0.4	+	+	+	0	0	0.2	0.1		
	N	751.0	773.9	837.8	905.1	230.2	239.3	230.6	205.0	f	f		
	P	131.4	126.8	145.0	209.0	46.8	50.7	51.4	60.1	66.1	69.0		
	O	96.5	107.4	117.2	116.2	24.3	28.9	31.5	31.5	30.3	35.4		
FIBERFILL[d]	P	276.1	281.1	294.9	348.6	88.9	80.7	83.6	95.4	82.1	81.9		
FLOCK	NP	9.2	5.3	5.9	5.5	1.6	1.0	1.3	1.6	1.6	1.6		
	R	2.7	1.8	1.8	0.9	0.5	0.4	0	0	+	+		
NONWOVENS[e]	R	126.3	113.5	125.4	124.4	31.1	28.6	31.8	32.9	35.4	36.0		
	N	2.8	2.5	2.1	1.9	0.4	0.4	0.5	0.6	0.4	0.5		
	P	177.2	162.5	175.3	204.2	48.7	47.7	51.4	56.4	63.1	58.9		
	[g] VINYON+O	119.2	135.8	166.2	198.0	49.4	50.4	47.8	50.4	46.0	46.9		
ALL OTHER	R	18.8	25.9	20.8	22.7	6.0	5.3	5.4	6.0	6.9	5.0		
	N	9.4	11.2	11.9	14.8	4.6	4.4	2.8	3.0	229.0	214.0		
	A	38.7	29.5	20.9	13.6	5.3	3.2	2.5	2.6	1.9	2.1		
	P	56.2	116.9	108.3	115.0	23.3	27.6	32.1	32.0	19.7	31.5		
	[g] VINYON+O	3.1	9.6	11.3	6.7	2.6	1.7	1.3	1.1	2.9	1.5		
TOTAL ABOVE	**R**	**331.9**	**323.7**	**373.0**	**383.1**	**91.8**	**91.0**	**97.9**	**102.4**	**101.9**	**102.0**		
	N	**814.4**	**830.3**	**894.9**	**966.0**	**246.2**	**253.2**	**246.2**	**220.4**	**238.8**	**223.8**		
	A	**446.7**	**458.7**	**531.2**	**479.3**	**139.4**	**131.6**	**112.8**	**95.5**	**109.0**	**109.3**		
	P	**1992.2**	**1872.7**	**1998.6**	**2201.0**	**534.4**	**549.9**	**537.5**	**579.2**	**563.5**	**572.5**		
	[g] VINYON+O	**240.9**	**279.7**	**312.7**	**341.1**	**81.1**	**85.7**	**86.1**	**88.2**	**83.8**	**87.6**		
TOTAL DOMESTIC		**3826.1**	**3765.1**	**4110.4**	**4370.5**	**1092.9**	**1111.4**	**1080.5**	**1085.7**	**1097.0**	**1095.2**		
ALSO DIVIDED AS													
APPAREL		*1277.2*	*1255.0*	*1489.3*	*1479.9*	*386.0*	*388.9*	*351.3*	*353.7*	*355.8*	*358.7*		
HOME FURNISHINGS		*1559.0*	*1536.9*	*1625.8*	*1755.8*	*425.1*	*450.6*	*448.3*	*431.8*	*453.5*	*443.4*		
INDUSTRIAL		*989.9*	*973.2*	*995.3*	*1134.8*	*281.8*	*271.9*	*280.9*	*300.2*	*287.7*	*293.1*		

a. Olefin quantities are included in All Other.
b. Rayon and nylon quantities are included in All Other.
c. Nylon quantities are included in All Other.
d. Rayon, acrylic and nylon quantities are included in All Other.
e. Wet & dry laid and needled batts only.
f. Acrylic and nylon quantities are included in All Other.
g. 1987-1988 data exclude Vinyon.

TABLE 16:
SELECTED U.S. MONTHLY FIBER DATA
MILLION POUNDS

	1988												YEAR TO DATE[a]	
ITEM	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1988	1987
MAN-MADE FIBER TOTAL SHIPMENTS[b c]														
CELLULOSIC														
YARN	15.9	16.1	18.1	19.4	18.3	17.5	19.1	18.6	18.1				161.1	140.0
RAYON STAPLE	32.6	35.9	38.5	35.5	36.4	36.2	29.1	36.1	34.3				314.6	309.6
TOTAL CELLULOSIC	**48.5**	**52.0**	**56.6**	**54.9**	**54.7**	**53.7**	**48.2**	**54.7**	**52.4**				**475.7**	**449.6**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	27.5	32.1	34.8	32.2	30.8	32.4	32.4	28.8	29.2				280.2	281.0
- CARPET	72.6	80.7	84.6	80.7	81.9	79.3	73.7	89.4	87.7				730.6	726.2
- TEXTILE[f]	30.0	31.2	34.5	31.7	32.0	32.6	27.7	32.5	32.5				284.7	286.4
POLYESTER - INDUSTRIAL[d]	26.5	29.3	30.7	31.3	29.4	32.3	29.3	29.0	29.5				267.3	252.6
- TEXTILE[f]	62.9	68.4	67.7	74.3	71.9	70.5	70.2	66.7	69.1				621.7	630.8
OLEFIN[e]	97.2	101.4	102.4	102.7	102.9	102.8	89.0	103.6	108.1				910.1	837.0
TOTAL YARN	**316.7**	**343.1**	**354.7**	**352.9**	**348.9**	**349.9**	**322.3**	**350.0**	**356.1**				**3094.6**	**3014.0**
STAPLE+TOW+FIBERFILL														
NYLON	78.0	81.7	83.4	71.0	77.9	79.2	75.0	90.0	81.3				717.5	759.6
ACRYLIC+MODACRYLIC	48.5	52.8	55.4	45.4	45.6	47.4	42.1	53.2	51.8				442.2	447.5
POLYESTER	190.4	200.4	195.3	212.1	195.8	195.7	190.9	195.7	202.1				1778.4	1755.3
OLEFIN	29.1	29.6	30.7	29.8	31.2	32.4	26.9	32.1	30.2				272.0	270.9
TOTAL STAPLE	**346.0**	**364.5**	**364.8**	**358.3**	**350.5**	**354.7**	**334.9**	**371.0**	**365.4**				**3210.1**	**3233.3**
TOTAL NONCELLULOSIC	**662.7**	**707.6**	**719.5**	**711.2**	**699.4**	**704.6**	**657.2**	**721.0**	**721.5**				**6304.7**	**6247.3**
TOTAL MAN-MADE FIBER	**711.2**	**759.6**	**776.1**	**766.1**	**754.1**	**758.3**	**705.4**	**775.7**	**773.9**				**6780.4**	**6696.9**
MAN-MADE FIBER END OF MONTH STOCK														
CELLULOSIC														
YARN	12.3	13.3	13.2	14.0	12.8	12.4	13.4	11.6	11.5				11.5	12.9
RAYON STAPLE	23.5	22.5	20.3	18.0	16.5	13.4	15.5	13.7	13.3				13.3	18.2
TOTAL CELLULOSIC	**35.8**	**35.8**	**33.5**	**32.0**	**29.3**	**25.8**	**28.9**	**25.3**	**24.8**				**24.8**	**31.1**
NONCELLULOSIC														
YARN+MONOFILAMENTS														
NYLON - INDUSTRIAL[d]	26.6	25.7	23.5	23.3	25.2	24.7	28.1	30.4	30.5				30.5	22.8
- CARPET	72.0	66.5	67.0	67.1	70.2	71.9	78.0	61.9	58.1				58.1	45.2
- TEXTILE[f]	54.6	53.1	50.0	49.7	51.2	50.4	55.3	55.2	54.2				54.2	45.7
POLYESTER - INDUSTRIAL[d]	29.8	29.2	28.8	29.6	30.5	29.2	33.3	32.4	31.4				31.4	25.2
- TEXTILE[f]	82.5	81.5	79.5	77.3	79.7	82.9	94.4	94.4	90.2				90.2	87.2
OLEFIN[e]	54.4	55.0	53.5	54.1	54.5	54.0	55.3	53.7	52.0				52.0	53.0
TOTAL YARN	**319.9**	**311.0**	**302.3**	**301.1**	**311.3**	**313.1**	**344.4**	**328.0**	**316.4**				**316.4**	**279.1**
STAPLE+TOW+FIBERFILL														
NYLON	63.4	64.7	57.5	64.4	60.5	65.2	66.5	60.6	45.3				45.3	64.4
ACRYLIC+MODACRYLIC	62.4	58.8	55.4	57.9	63.7	67.9	72.8	67.3	62.3				62.3	68.7
POLYESTER	173.7	168.3	157.8	161.8	167.4	173.7	205.7	194.9	188.6				188.6	164.2
OLEFIN	32.5	33.7	35.0	35.8	37.8	36.1	38.5	38.4	32.8				32.8	32.5
TOTAL STAPLE	**332.0**	**325.5**	**305.7**	**319.9**	**329.4**	**342.9**	**383.5**	**361.2**	**329.0**				**329.0**	**329.8**
TOTAL NONCELLULOSIC	**651.9**	**636.5**	**608.0**	**621.0**	**640.7**	**656.0**	**727.9**	**689.2**	**645.4**				**645.4**	**608.9**
TOTAL MAN-MADE FIBER	**687.7**	**672.3**	**641.5**	**653.0**	**670.0**	**681.8**	**756.8**	**714.5**	**670.2**				**670.2**	**640.0**
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	12.9	11.7	14.1	11.3	11.5	13.5	11.6						86.6	93.5
CARPET CLASS WOOL	1.4	1.5	1.6	1.4	1.4	1.1	1.1						9.5	7.4
TOTAL RAW WOOL	14.3	13.2	15.7	12.7	12.9	14.6	12.7						96.1	100.9
RAW COTTON	300.0	311.4	339.3	278.0	302.6	297.4	222.4						2051.1	2125.5

a. "Year to date" totals for stock, are the latest month's figures.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic shipments plus export shipments.

d. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

e. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

f. Includes low denier industrial yarn.